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(54) Title: METHODS FOR IDENTIFYING MARKER GENES FOR CANCER

(57) Abstract: The invention describes a method of identifying tissue-specific tumor markers and diagnostic and therapeutic methods and compositions of using the same. More specifically, the invention presents a method for a rational search of diagnostic and prognostic cancer markers and therapeutic targets among the genes negatively regulated by tumor suppressor genes.

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METHODS FOR IDENTIFYING MARKER GENES FOR CANCER

Field of the Invention

The invention relates generally to the field of cancer. More specifically, the invention details methods for the identification of markers specific for one or several types of cancer, depending on tissue origin. Such markers are useful in numerous diagnostic and prognostic applications as well as cancer type-specific targets for therapeutic intervention.

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Background of the Invention

An effective cure of any given cancer will greatly depend on the development of new diagnostic assays based on identification of reliable serological and histological markers and on designing new therapeutic strategies and pharmaceuticals for effective elimination of cancer cells in the diseased individual. Tumor suppressor genes normally function to inhibit division or survival of genetically damaged cells and thus function to prevent the development of tumors. Mutations in tumor suppressor genes cause the cell to ignore one or more of the components of a network of inhibitory signals, removing the inhibitory mechanisms from the cell cycle, and resulting in a higher rate of uncontrolled growth, *i.e.*, cancer. Tumor suppressor genes are defined by the impact of their absence and thus tend to be recessive. Thus, neoplasia is the result of the loss of function of these genes. The loss or inactivation of a normal tumor suppressor gene may be acquired somatically in a single clone of cells or be constitutionally present throughout the body, including the germ line.

There are numerous tumor suppressors known to those of skill in the art, including, for example, p53; the retinoblastoma gene, commonly referred to as Rb1; the adenomatous polyposis of the colon gene (APC); familial breast/ovarian cancer gene 1 (BRCA1); familial breast/ovarian cancer gene 2 (BRCA2); CDH1 cadherin 1 (epithelial cadherin or E-cadherin) gene; cyclin-dependent kinase inhibitor 1C gene (CDKN1C, also known as p57, KIP2 or BWS); cyclin-dependent kinase inhibitor 2A gene (CDKN2A also known as p16 MTS1 (multiple tumor suppressor 1), TP16 or INK4); familial cylindromatosis gene (CYLD; formerly known as EAC

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(epithelioma adenoides cysticum)); E1A-binding protein gene (p300); multiple exostosis type 1 gene (EXT1); multiple exostosis type 2 gene (EXT2); homolog of Drosophila mothers against decapentaplegic 4 gene (MADH4; formerly referred to as DPC4 (deleted in pancreatic carcinoma 4) or SMAD4 (SMA- and MAD-related protein 4)); mitogen-activated protein kinase kinase 4 (MAP2K4; also referred to as JNKK1, MEK4, MKK4, or PRKMK4; formerly known as SEK1 or SERK1); multiple endocrine neoplasia type 1 gene (MEN1); homolog of E. coli MutL gene (MLH1 also known as HNPCC (hereditary non-polyposis colorectal cancer) or HNPCC2; formerly referred to as COCA2 (colorectal cancer 2) and FCC2); homolog of E. coli MutS 2 gene (MSH2 also called HNPCC (hereditary non-polyposis colorectal cancer) or HNPCC1 and formerly known as COCA1 (colorectal cancer 1) and FCC1); neurofibromatosis type 1 gene (NF1); neurofibromatosis type 2 gene (NF2); protein kinase A type 1, alpha, regulatory subunit gene (PRKAR1A, formerly known as PRKAR1 or TSE1 (tissue-specific extinguisher 1)); homolog of Drosophila patched gene (PTCH; also called BCNS); phosphatase and tensin homolog gene (PTEN, also called MMAC1 (mutated in multiple advanced cancers 1), formerly known as BZS (Bannayan-Zonana syndrome) and MHAM1 (multiple hamartoma 1)); succinate dehydrogenase cytochrome B small subunit gene (SDHD; also called SDH4); Swi/Snf5 matrix-associated actin-dependent regulator of chromatin gene (SMARCB1, also referred to as BAF47, HSNFS, SNF5/INI1, SNF5L1, STH1P, and SNR1); serine/threonine kinase 11 gene (STK11 also known as LKB1 and PJS); tuberous sclerosis type 1 gene (TSC1 also known as KIAA023); tuberous sclerosis type 2 gene (TSC2, previously referred to as TSC4); von Hipple-Lindau syndrome gene (VHL); and Wilms tumor 1 gene (WT1, formerly referred to as GUD (genitourinary dysplasia), WAGR (Wilms tumor, aniridia, genitourinary abnormalities, and mental retardation), or WIT-2), DAP-kinase, FHIT, Werner syndrome gene, and Bloom syndrome gene.

The p53 tumor suppressor gene is an exemplary tumor suppressor in its mode of action. It encodes a nuclear transcription factor that accumulates in cells in response to a variety of stresses, thereby inducing growth arrest or apoptosis (Gottlieb and Oren, *Biochim Biophys Acta.*, 1287(2-3):77-102 (1996). p53 or the pathway mediated by p53 are inactivated in the majority of human tumors, including advanced prostate cancer (Steele *et al.*, *Br J Surg.*, 85(11):1460-1467 (1998); Ozen and Pathak, *Anticancer Res.*, 20(3B):1905-1912 (2000).

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One of the functions of the p53 protein in the cell is that it binds DNA stimulating the expression of p21-waf1 that interacts with a cell division-stimulating protein (cdk2). When p21 is complexed with cdk2, the cell cannot pass to the S stage of cell division (G1 check point). Mutant p53 can no longer bind DNA in an effective way, and as a consequence the p21-waf1 protein is not made available to act as the 'stop signal' for cell division. Thus, cells divide uncontrollably and form tumors. Thus, inactivation of p53 is associated with the loss of this cell cycle checkpoint control and with the consequent resistance to anti-cancer treatment, genomic instability, and enhanced angiogenesis, leading to rapid tumor progression (Gottlieb and Oren, Biochim Biophys Acta., 1287(2-3):77-102 (1996); Cordon-Cardo et al., Semin. Surg. Oncol., 13:319-327 (1997).

Many p53-mediated effects are achieved through the activity of p53-responsive genes that are either up- or down-regulated by p53. In fact, the activity of p53-responsive genes account, in part, for p53-mediated checkpoint control [upregulation of p21-waf1, 14-3-3 [(G2 checkpoint)], apoptosis (upregulation of bax, PUMA, and genes determining enhanced reactive oxygen species metabolism), suppression of angiogenesis (upregulation of thrompospondins 1 and 2, and downregulation of VEGF) and p53 feedback regulation (upregulation of mdm2) (see Gottlieb and Oren, Biochim Biophys Acta., 1287(2-3):77-102 (1996) for references). Much like p53, the other tumor suppressors listed above also mediate their effects through the activity of responsive genes that are either up- or down-regulated by the tumor suppressor, directly or indirectly. Genes that have altered expression in tumors may serve as targets for development of anti-cancer drugs, or cancer markers or both. However, the relationship between changes in gene expression, resulting from tumor suppressor deficiency, and tumor progression is not sufficiently understood. It also remains unclear why the germline loss of tumor suppressor gene function leads to development of certain specific types of cancer and not others. This implies that in each specific tissue the changes in gene expression imposed by the loss of tumor suppressor gene are unique. Taking into account a need for tissue-specific markers of cancer, the inventors have devised a method for the identification of such tissuespecific markers by exploiting the tumor suppressor regulation of genes in cancer cells.

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Summary of the Invention

The invention relates to methods for diagnosing and prognosing cancer by utilizing general as well as tissue-specific genetic markers, methods for identifying these markers, and the markers identified by such methods.

The invention provides a method of identifying tissue-specific and general tumor markers and diagnostic and therapeutic methods and compositions of using the same. Diagnostic markers may be screening markers (secreted polypeptides), histological markers (using which it is possible to distinguish tumor tissue from benign tissue within histological samples) or staging markers (determining the stage of a cancer by detection of the presence of specific cancer cells in blood (micrometastases) by RT-PCR on identified cancer-type-specific markers on the whole blood RNA).

The invention provides a method of identifying a diagnostic marker for a cancer comprising: a) obtaining a first cell from a first cell type of the cancer, the cell comprising a defective tumor suppressor expression; b) obtaining a second cell of the first cell type, wherein the second cell comprises a wild-type tumor suppressor expression; c) identifying genes having an increased level of expression in the first cell as compared to the second cell; and d) selecting at least one gene of step c) as a diagnostic marker for the cancer.

In the diagnostic and therapeutic methods for using such a marker(s), the invention provides a method of diagnosing a cancer in a subject comprising determining, in a sample from the subject, the level of at least one polypeptide, wherein a higher level of the polypeptide compared to the level of the polypeptide in a subject free of cancer is indicative of cancer, and wherein the polypeptide is selected from the group consisting of a) polypeptides encoded by the polynucleotides listed in Table 5 or in Table 6; and b) polypeptides which are at least 70% homologous to the polypeptides of a) at the amino acid sequence level. In one embodiment of the diagnostic methods, the level of a polypeptide-encoding polynucleotide is determined, rather than the polypeptide itself. In such methods, the invention contemplates any of the polynucleotides in Table 6, polynucleotides having sequences that differ from the polynucleotides in a) without changing the polypeptide encoded thereby, and polynucleotides that are at least 70% homologous to the polynucleotides of a) at the nucleic acid sequence level.

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In the case of at least p53 and possibly other tumor suppressors, the invention further provides a method of determining the p53 status within the tumor (*i.e.*, whether the cancer cell is a p53⁻ or a p53⁺ tumor cell.), which is important for prognosis and treatment selection.

The invention also provides a method for monitoring the activity of p53 suppressive drugs, or drugs that suppress other tumor suppressors described herein, by measuring any of the markers identified herein the polypeptides of which are secreted, such as PSA or pancreatitis-associated protein. In this aspect, the invention provides a method of measuring the responsiveness of a subject to a cancer treatment comprising determining the level of at least one polypeptide in a sample taken from the subject before treatment, and comparing it with the level of the polypeptide in a sample taken from the subject after treatment, a decrease in the level indicating responsiveness of the subject to the cancer treatment, wherein the polypeptide is selected from the group consisting of a) polypeptides encoded by the polynucleotides listed in Table 5 and Table 6; and b) polypeptides which are at least 70% homologous to the polypeptides of a).

In a related aspect, the invention provides a method of measuring the responsiveness of a subject to a cancer treatment comprising determining the level of at least one polypeptide-encoding polynucleotide in a sample taken from the subject before treatment, and comparing it with the level of the polynucleotide in a sample taken from the subject after treatment, a decrease in the level indicating responsiveness of the subject to the cancer treatment, wherein the polynucleotide is selected from the group consisting of a) the polynucleotides listed in Table 6; b) polynucleotides having sequences that differ from the polynucleotides in a), without changing the polypeptide encoded thereby; and c) polynucleotides which are at least 70% homologous to the polynucleotides of a).

According to another aspect of the invention, a method is provided of screening for drugs useful in the treatment of cancer. A cell which harbors a tumor suppressor mutation or defective expression is contacted with a test substance. Expression of a transcript or its translation product is monitored. The transcript is a tissue-specific tumor marker of the invention. A test substance is identified as a potential drug for treating cancer if it decreases expression of a marker identified as one that is up-regulated as a result of loss of tumor suppressor function. Alternatively,

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the test substance is identified as a potential drug if it increases the expression of a marker identified as one that is down regulated as a result of loss of tumor suppressor function.

For example, the invention provides a method for screening for compounds that modulate the activity of a tumor suppressor gene comprising a) obtaining a cell comprising a defective tumor suppressor expression; b) measuring the level of expression of a marker of Table 5 or 6 in the cell; c) contacting the cell with a test compound; and d) measuring the expression of the marker of step b) after the contacting step c), wherein a change in the level of expression after the contacting step as compared to the level of expression before the contacting step is indicative of the ability of the compound to modulate the activity of the tumor suppressor gene.

Another aspect of the invention concerns a method of determining p53 inactivation in prostate cells of an individual comprising determining the levels of serum PSA, wherein elevated serum PSA levels in said individual are indicative of p53 inactivation in said prostate cells.

Yet another aspect of the invention a method of monitoring the effect of a p53-based cancer therapy on a prostate cancer patient, the prostate cancer cells of said patient having a p53 loss of function mutation, said method comprising determining the levels of serum PSA of said patient before and after said therapy, wherein a decrease in the serum PSA levels after provision of said therapy is indicative of said therapy overcoming the deleterious effects of said p53 mutation.

In addition, the invention also contemplates a method of detection of p53 inactivation in other tissues. For example, from observations of pancreatitis associated protein, the inactivation of p53 in pancreatic carcinoma may be determined. Similar observations may be made about other preferred markers disclosed in this application.

Numerous other aspects and advantages of the invention will be apparent upon consideration of the following drawings and detailed description.

Brief Description of the Drawings

The following drawings form part of the present specification and are included to further illustrate aspects of the invention. The invention may be better

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understood by reference to the drawings in combination with the detailed description of the preferred embodiments presented herein.

Figure 1: Inactivation of p53 pathway in LNCaP cells by GSE56 correlates with increased secretion of PSA. Quantitation of PSA protein in culture medium conditioned by the indicated cells, performed by the Microparticle Enzyme Immunoassay method using IMx operation system (Abbott Diagnostics, Abbott Park, IL, USA) binding to DNA for repression (Kley et al., Nucleic Acids Res., 20:4083-4087 (1992); Sun et al., J. Biol. Chem., 274:11535-11540 (1999); Xu et al., Oncogene, 19:5123-5133 (2000).

Figure 2: Opposite regulatory effect of p53 on PSA and p21 promoters. Chloramphenicol acetyltransferase (CAT)-reporter constructs were used to estimate p53 influence on PSA and p21 promoter elements. A panel of reporter constructs: pBasic-CAT (CAT gene under minimal thymidine kinase promoter), pWAF1-CAT (p53-binding site from p21/Waf1 gene upstream of the minimal thymidine kinase promoter); p407ECAT plasmid, containing 1.6 kb enhancer (-5322 to -3740) and 418 bp promoter (-407 to +11) elements from PSA gene followed by promoterless CAT (Zhang et al., Biochem. Biophys. Res. Comm., 231:784-788 (1997); Zhang et al., Nucleic Acids Res., 25:3143-3150 (1997) were transfected into LNCaP cells in combination with different amounts of pLp53SN, containing human wild type p53, pLGSE56SN expressing GSE56 or empty pLXSN vector using Lipofectamin Plus reagent (Gibco BRL). Bars reflect relative CAT activity in lysates of LNCaP cells transiently transfected with either PSA-CAT (upper panel) or p21-CAT (lower panel) constructs in combination with the indicated plasmids. Results are normalized according to transfection efficiency and CAT expression in control cells transfected with insert-free vector. wt, plasmid expressing wild type human p53 cDNA; GSE, plasmid. (1) and (2) indicate plasmid concentration in micrograms. The experiment was repeated three times and showed similar results with variations in relative CAT activity values less than 20 percent.

Figure 3: Trichostatin A (TSA) treatment eliminates the effect p53 has on PSA promoter activity. Bars show relative CAT activity in lysates of LNCaP cells transiently transfected with the indicated plasmid DNAs. TSA (100 nM) was added 5 h and CAT activity was measured 40 h post-transfection. Values reflect average of three independent experiments normalized according to transfection efficiency and CAT expression in control cells transfected with insert-free vector with no TSA.

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156Pro mutants had no detectable effect on PSA. Thus, the dominant negative activity of tumor-derived p53 mutants is well correlated with the increased production of PSA by LNCaP cells, suggesting that similar events occur during tumor progression.

Figure 4: Effect of tumor-derived p53 mutants on the levels of p21 5. protein expression and on PSA secretion by LNCaP cells. LNCaP cells were transduced with insert-free retrovirus or retroviruses expressing indicated p53 mutants. A panel of constructs expressing p53 mutants (pPS-p53^{135val}, pPS-p53^{141Ala}, pPS-p53^{156Pro}, pPS-p53^{175His}) was prepared in Mo- MuLV-based retroviral vector pPS-Hygro, expressing the p53 cDNA under the control of LTR and the hygromycin 10 resistance gene under the control of SV40 promoter (Ossovskaya et al., Proc. Natl. Acad. Sci. USA, 93:10309-10314 (1996). Expression of p53 and p21 proteins was detected in the lysates of untreated LNCaP cell populations by Western immunoblotting with appropriate antibodies. Before loading, samples were normalized according to protein amounts confirmed by membrane staining and 15 probing with anti-actin antibodies. 24-hour medium was collected from the same cell cultures and amounts of PSA protein were measured by Microparticle Enzyme Immunoassay, using IMx operation system (Abbott Diagnostics, Abbott Park, IL, USA).

Figure 5 contains the sequences of the genes listed in Tables 5 and 6, in order of the sequence ID number (SEQ ID NO). Note that the GenBank accession Number of the mouse EST printed on the chip is given in the tables; the name of the corresponding human consensus sequence [mRNA] (obtained by bioinformatic analysis) and the GenBank ID(s) of the sequence closest to the consensus sequence, where available, was added into Tables 5 and 6. Figure 5 contains the human consensus sequence of each gene, where available, or the mouse consensus sequence, if the human sequence was unavailable, or the mouse EST sequence, if neither human nor mouse consensus sequence was available. The sequence identifier (SEQ ID NO), and corresponding Genbank accession number, are denoted before each sequence.

This application contains six Excel tables (Table 1-6 discussed herein).

These tables are attached to this application as printed tables and also on a diskette.

Detailed Description of the Preferred Embodiments

The invention deals with methods of obtaining genetic markers for diagnosis and prognosis of cancer and methods for the use of these markers.

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A preferred embodiment of the diagnostic aspect concerns a method of diagnosing a cancer in a subject comprising determining, in a sample from the subject, the level of at least one polypeptide, wherein a higher level of the polypeptide compared to the level of the polypeptide in a subject free of cancer is indicative of cancer, and wherein the polypeptide is selected from the group consisting of: polypeptides encoded by the human polynucleotides or the human orthologs of mouse polynucleotides listed in Table 5 or 6, and homologs of said polypeptides having at least 70% homology, preferably at least 80% homology, more preferably at least 90% homology.

The sample may be taken from a bodily fluid, such as blood, lymph fluid, ascites, serous fluid, pleural effusion, sputum, cerebrospinal fluid, lacrimal fluid, synovial fluid, saliva, stool, sperm and urine. The sample may also originate from a tissue, such as brain, lung, liver, spleen, kidney, pancreas, intestine, colon, mammary gland or breast, stomach, prostate, bladder, placenta, uterus, ovary, endometrium, testicle, lymph node, skin, head or neck, esophagus, bone marrow, and blood or blood cells.

General protocols for the detection of cancer markers can be found in "Tumor Marker Protocols", Hanausek & Walaszek (Eds.), Humana Press, 1998. Methods of determining the level of a polypeptide in a sample are well known in the art (see, for example: Coligan et al, Unit 9, Current Protocols in Immunology, Wiley Interscience, 1994) and include, inter alia: immunohistochemistry (Microscopy, Immunohistochemistry and Antigen Retrieval Methods: For Light and Electron Microscopy, M.A. Hayat (Author), Kluwer Academic Publishers, 2002; Brown C.: "Antigen retrieval methods for immunohistochemistry", Toxicol Pathol 1998; 26(6): 830-1; ELISA (Onorato et al., "Immunohistochemical and ELISA assays for biomarkers of oxidative stress in aging and disease", Ann NY Acad Sci 1998 20; 854: 277-90), western blotting (Laemmeli UK: "Cleavage of structural proteins during the assembley of the head of a bacteriophage T4", Nature 1970;227: 680-685; Egger & Bienz, "Protein (western) blotting", Mol Biotechnol 1994; 1(3): 289-305), antibody microarray hybridization (Huang, "detection of multiple proteins in an antibody-based protein microarray system, Immunol Methods 2001 1; 255 (1-2): 1-13) and Targeted molecular imaging, which can be carried out on the whole body with imaging agents such as antibodies against the marker polypeptides (which may be membrane-bound proteins), the marker polypeptides themselves, receptors and contrast agents. The

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visualizations techniques include single photon and positron emission tomography, magnetic resonance imaging (MRI), computed tomography or ultrasonography (Thomas, Targeted Molecular Imaging in Oncology, Kim et al (Eds)., Springer Verlag, 2001). Any other known methods of polypeptide detection are also envisaged in connection with the invention. Optimization of protein detection procedures for diagnosis is well known in the art and described herein below. Specifically, diagnostic assays using the above methods may be carried out essentially as follows: Immunohistochemistry for diagnosis may be carried out essentially as described in Diagnostic Immunohistochemistry, David J., MD Dabbs, Churchill Livingstone, 1st Ed, 2002; Quantitative Immunohistochemistry: Theoretical Background and its Application in Biology and Surgical Pathology, Fritz et al., Gustav Fischer, 1992. Western blotting-based diagnosis may be carried out essentially as described in Brys et al., "p53 protein detection by the Western blotting technique in normal and neoplastic specimens of human endometrium", Cancer Letters 2000; 148 (197-205); Rochon et al., "Western blot assay for prostate-specific membrane antigen in serum of prostate cancer patients" Prostate 1994; 25(4): 219-23; Dalmau et al., "Detection of the anti-Hu antibody in the serum of patients with small cell lung cancer-- a quantitative western blot analysis", Ann Neurol 1990; 27(5): 544-52; Joyce et al., "Detection of altered H-ras proteins in human tumors using western blot analysis", Lab Invest 1989; 61(2): 212-8. ELISA based diagnosis may be carried out essentially as described in D'ambrosio et al., "An enzyme-linked immunosorbent assay (ELISA) for the detection and quantitation of the tumor marker 1-methylinosine in human urine", Clin Chim Acta 1991; 199(2): 119-28; Attalah et al., "A dipstick, dot-ELISA assay for the rapid and early detection of bladder cancer", Cancer Detect Prev 1991; 15(6): 495-9; Erdile et al., "Whole cell ELISA for detection of tumor antigen expression in tumor samples", Journal of Immunological Methods 2001; 258: 47-53. Antibody microarray-based diagnosis may be carried out essentially as described in Huang, "detection of multiple proteins in an antibody-based protein microarray system, Immunol Methods 2001 1; 255 (1-2): 1-13. Targeted molecular imaging-based diagnosis may be carried out essentially as described in Thomas, Targeted Molecular Imaging in Oncology, Kim et al (Eds)., Springer Verlag, 2001; Shahbazi-Gahrouei et al., "In vitro studies of gadolinium-DTPA conjugated with monoclonal antibodies as cancer-specific magnetic resonanace imaging contrast agents", Australas Phys Eng Sci Med 2002; 25(1): 31-8; Tiefenauer et al., "Antibody-magnetite nanoparticles: in

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vitro cheracterization of a potential tumor-specific contrast agent for magnetic resonance imaging", *Bioconjug Chem* 1993; 4(5): 347-52; Cerdan et al., "Monoclonal antibody-coated magnetite particles as contrast asents in magnetic resonance imaging of tumors", *Magn Reson Med* 1989; 12(2): 151-63. In addition, polypeptides may be detected and a diagnostic assay performed using Mass Spectrometry, essentially as described in Bergquist et al., "peptide mapping of proteins in human body fluids using electrospray ionization fourier transform ion cyclotron resonance mass spectrometry", *Mass Spectrometry Reviews*, 2002; 21:2-15 and Gelpi, "Biomedical and biochemical applications of liquid-chromatography-mass spectrometry", *Journal of Chromatography A*, 1995; 703: 59-80.

An additional embodiment of the diagnostic aspect of the invention provides for a method of diagnosing a cancer in a subject comprising determining, in a sample from the subject, the level of at least one polypeptide-encoding polynucleotide, wherein a higher level of the polynucleotide compared to the level of the polynucleotide in a subject free of cancer is indicative of cancer, and wherein the polynucleotide is selected from the group consisting of human polynucleotides or the human orthologs of mouse polynucleotides listed in Tables 5 and 6, preferably in Table 6, polynucleotides having sequences that differ from these polynucleotides without changing the polypeptide encoded thereby, and homologs thereof having at least 70% homology, preferably at least 80% homology, more preferably at least 90% homology.

The sample may originate from a tissue or a bodily fluid, as described above.

Methods of determining the level of a polynucleotide in a sample are well known in the art and include, *inter alia*: RT-PCR analysis, in-situ hybridization and northern blotting; polynucleotide detection may also be performed by hybridizing a sample with a microarray imprinted with markers. Any other known methods of polynucleotide detection are also envisaged in connection with the invention. Optimization of polynucleotide detection procedures for diagnosis is well known in the art and described herein below. Specifically, diagnostic assays using the above methods are well known in the art (see, for example: Sidransky, "Nucleic Acid-Based methods for the Detection of Cancer", *Science*, 1997; 278: 1054-1058) and may be carried out essentially as follows: RT-PCR for diagnosis may be carried out essentially as described in Bernard & Wittwer, "Real-Time PCR Technology for

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Cancer Diagnostics", Clinical Chemistry 2002; 48(8): 1178-85; Raj et al., "Utilization of Polymerase Chain Reaction Technology in the Detection of Solid Tumors", Cancer 1998; 82(8): 1419-1442; Zippelius & Pantel, "RT-PCR-based detection of occult disseminated tumor cells in peripheral blood and bone marrow of patients with solid tumors. An overview", Ann NY Acad Sci 2000; 906:110-23. In-situ hybridization for diagnosis may be carried out essentially as described in "Introduction to Fluorescence In Situ Hybridization: Principles and Clinical Applications", Andreeff & Pinkel (Editors), John Wiley & Sons Inc., 1999; Cheung et al., "Interphase cytogenetic study of endometrial sarcoma by chromosome in situ hybridization, modern Pathology 1996; 9:910-918. Northern blotting for diagnosis may be carried out essentially as described in Trayhurn, "Northern blotting", Proc Nutr Soc 1996; 55(1B): 583-9; Shifman & Stein, "A reliable and sensitive method for non-radioactive Northern blot analysis of nerve growth factor mRNA from brain tissues", Journal of Neuroscience Methods 1995; 59: 205-208; Pacheco et al., "Prognostic significance of the combined expression of matrix metalloproteinase-9, urokinase type plasminogen activator and its receptor in breast cancer as measured by Northern blot analysis", Int J Biol Markers 2001; 16(1): 62-8. Polynucleotide microarray-based diagnosis can be carried out essentially as described in Ring & Boss, "Microarrays and molecular markers for tumor classification", Genome Biol 2002; 3(5): comment2005; Lacroix et al., "A lowdensity DNA microarray for analysis of markers in breast cancer", Int J Biol Markers 2002; 17(1): 5-23. In addition, polynucleotide microarray hybridization for diagnosis may be carried out essentially as described in the following review concerning micorarrays in the diagnosis of various cancers: Schmidt & Begley, "Cancer diagnosis and microarrays", The International Journal of Biochemistry and Cell Biology, 2003; 35: 119-124. Diagnostic assays using tissue microarrays are also possible and may be performed essentially as described in Ginestier et al., "Distinct and comlementary information provided by use of tissue and DNA microarrays in the study of breast tumor markers", Am J Pathol 2002; 161(4): 1223-33; Fejzo & Slamon, "Frozen tumor tissue microarray technology for analysis of tumor RNA, DNA and proteins", Am JPathol 2001; 159(5): 1645-50.

An example of detection of polynucleotides in bodily fluid is that of "staging" markers, which determine the stage of a cancer by detection of the presence of specific cancer cells in the blood (micrometastases) by RT-PCR of identified cancer-type-specific markers expression on the whole blood RNA (provided these

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markers are not normally expressed in blood cells) such detection and diagnosis can be carried out essentially as described in Luke & Kaul, "Detection of Breast Cancer Cells in Blood Using Immunomagnetic Bead Selection and Reverse Transcription-Polymerase Chain Reaction", *Mol Diagn* 1998; 3(3): 149-155; Ghossein et al., "Molecular Detection of Micrometastases and Circulating Timor Cells in Solid Tumors", *Clinical Cancer Research* 1999; 5: 1950-1960; Mellado et al., "Detection of circulating neoplastic cells by reverse-transcripatse polymerase chain reaction in malignant melanoma: association with clinical stages and prognosis", *J Clin Oncol* 1996; 14(7): 2091-7.

Any of the diagnostic methods as described above can also be used together, simultaneously or not, and can thus provide a stronger diagnostic tool and validate or strengthen the results of a particular diagnosis. For combinations of different diagnostic methods see, *inter alia*: Hoshi et al., "Enzyme-linked immunosorbent assay detection of prostate-specific antigen messenger ribonucleic acid in prostate cancer", Urology 1999; 53 (1): 228-235; Zhong-Ping et al., "Quantitation of ERCC-2 Gene Expression in Human Tumor Cell Lines by Reverse Transcription-Polymerase Chain Reaction in Comparison to Northern Blot Analysis", *Analytical Biochemistry* 1997; 244: 50-54; Hatta et al., "Polymerase chain reaction and immunohistochemistry frequently detect occult melanoma cells in regional lymph nodes of melanoma pateints", *J Clin Pathol* 1998; 51(8): 597-601.

Any one of the diagnostic methods of the invention as recited above may also be employed to examine the status of a tumor suppressor gene or a biological pathway in which a tumor suppressor gene is involved, or to examine the effectiveness of a modulator of the activity of a tumor suppressor gene, such as a drug. The tumor suppressor gene in question may preferably be any one of p53, Rb1 and PTEN, as well as any other tumor suppressor gene deemed suitable. A list of tumor suppressor genes is provided above.

A preferred embodiment of the prognostic aspect of the invention concerns a method of measuring the responsiveness of a subject to a cancer treatment comprising determining the level of at least one polypeptide in a sample taken from the subject before treatment, and comparing it with the level of said polypeptide in a sample taken from the subject after treatment, a decrease in said level indicating responsiveness of said subject to the cancer treatment, wherein the polypeptide is selected from the group consisting of: polypeptides encoded by the human

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polynucleotides or the human orthologs of mouse polynucleotides listed in Table 5 or 6, and homologs of said polypeptides having at least 70% homology, preferably at least 80% homology, more preferably at least 90% homology.

As mentioned herein, the sample may be taken from a bodily fluid, as described above; the level of the polypeptide in the sample can be determined as described above.

In addition, the prognostic aspect of the invention comprises further a method of measuring the responsiveness of a subject to a cancer treatment comprising determining the level of at least one polypeptide-encoding polynucleotide in a sample taken from the subject before treatment, and comparing it with the level of said polynucleotide in a sample taken from the subject after treatment, a decrease in said level indicating responsiveness of said subject to the cancer treatment, wherein the polynucleotide is selected from the group consisting of: human polynucleotides or the human orthologs of mouse polynucleotides listed in Table 5 and 6, preferably in Table 6, polynucleotides having sequences that differ from these polynucleotides without changing the polypeptide encoded thereby, and homologs thereof having at least 70% homology, preferably at least 80% homology, more preferably at least 90% homology.

The sample may originate from a tissue, preferably blood or bone marrow cells, or a bodily fluid, as described above.

The level of the polynucleotide in the sample is determined by the methods disclosed above, preferably by RT-PCR analysis. Any other polynucleotide detection methods disclosed herein may also be employed.

In accordance with the prognostic aspect of the invention, the treatment in conjunction with which the above methods of measuring the responsiveness of a subject to a cancer treatment may be employed include, inter alia, radiotherapy or administration of a chemotherapeutic drug such as etoposide, 5-FU (5-fluorouracil), cis-platinum, doxorubicin, a vinca alkaloid, vincristine, vinblastine, vinorelbine, taxol, cyclophosphamide, ifosfamide. chlorambucil. busulfan. mechlorethamine, mitomycin, dacarbazine, carboplatinum, thiotepa, daunorubicin, idarubicin, mitoxantrone, bleomycin, esperamicin A1, dactinomycin, plicamycin, carmustine, lomustine, tauromustine, streptozocin, melphalan, dactinomycin, procarbazine, dexamethasone, prednisone, 2-chlorodeoxyadenosine, cytarabine, docetaxel, fludarabine, gemcitabine, herceptin, hydroxyurea, irinotecan, methotrexate,

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oxaliplatin, rituxin, semustine, tomudex and topotecan, and chemotherapeutically active analogs of these drugs.

In a further embodiment of the prognostic aspect of the invention, the methods disclosed herein may also be indicative of the status of a tumor suppressor gene, as described above. Where a tumor suppressor gene or a pathway in which such gene is involved is defective or abnormal, this information may also serve in prognosis of both disease progression and treatment responsiveness of a patient, regardless of whether said treatment is directed to the tumor suppressor in question.

In an additional embodiment, the diagnostic and prognostic methods of the invention may also be carried out essentially as described herein wherein the method comprises determining the level of at least two polypeptides or polypeptideencoding polynucleotides in a sample taken from a subject. Methods of determining the level of polypeptides and polynucleotides are described above.

Different combinations of polypeptides or polynucleotides of the cancer markers may be employed in different diagnostic or prognostic methods for various cancers.

For bodily fluid sample based diagnosis or prognosis, at least one polypeptide or combination of at least two polypeptides encoded by the human polynucleotide or human orthologs of the polynucleotides, of Table 3 and 5, preferably of Table 5, more preferably of the highlighted genes of Table 5, may be employed as markers.

For tissue sample based diagnosis or prognosis at least one polypeptide or combination of at least two polypeptides encoded by the human polynucleotide or human orthologs of the polynucleotides, of Table 2 and 6, preferably of Table 6, or the polynucleotides themselves may be employed as markers.

For the diagnosis or prognosis of a cancer of a specific tissue, the markers comprise at least one, preferably at least 2, human polypeptides or polynucleotides, or human orthologs of the mouse polypeptides or polynucleotides, or homologs thereof, listed in Table 2 and Table 6. For the tissues breast, placenta/uterus, kidney, bladder, lung, brain, colon, intestine, stomach, liver, pancreas and spleen the above described polypeptides and polynucleotides are listed in Table 2 and Table 6 as follows:

For the diagnosis or prognosis of a cancer of the breast, the markers listed in Table 2 sheet 1 and Table 6, preferably in Table 6 under the heading "breast";

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For the diagnosis or prognosis of a cancer of the uterus, the markers listed in Table 2 sheet 2 and Table 6, preferably in Table 6 under the heading "placenta/uterus";

For the diagnosis or prognosis of a cancer of the kidney, the markers

listed in Table 2 sheet 3 and Table 6, preferably in Table 6 under the heading
"kidney";

For the diagnosis or prognosis of a cancer of the bladder, the markers listed in Table 2 sheet 4 and Table 6, preferably in Table 6 under the heading "bladder";

For the diagnosis or prognosis of a cancer of the lung, the markers listed in Table 2 sheet 5 and Table 6, preferably in Table 6 under the heading "lung";

For the diagnosis or prognosis of a cancer of the brain, the markers listed in Table 2 sheet 6 and Table 6, preferably in Table 6 under the heading "brain";

For the diagnosis or prognosis of a cancer of the colon, the markers listed in Table 2 sheet 7 and Table 6, preferably in Table 6 under the heading "colon";

For the diagnosis or prognosis of a cancer of the intestine, the markers listed in Table 2 sheet 8 and Table 6, preferably in Table 6 under the heading "intestine";

For the diagnosis or prognosis of a cancer of the stomach, the markers listed in Table 2 sheet 9 and Table 6, preferably in Table 6 under the heading "stomach";

For the diagnosis or prognosis of a cancer of the liver, the markers listed in Table 2 sheet 10 and Table 6, preferably in Table 6 under the heading "liver";

For the diagnosis or prognosis of a cancer of the pancreas, the markers listed in Table 2 sheet 11 and Table 6, preferably in Table 6 under the heading "pancreas";

For the diagnosis or prognosis of a cancer of the spleen, the markers listed in Table 2 sheet 12 and Table 6, preferably in Table 6 under the heading "spleen."

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The invention further comprises a method of identifying a diagnostic marker for a cancer comprising:

(a) obtaining a first cell from a first cell type of said cancer, said cell comprising a defective tumor suppressor expression;

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(b) obtaining a second cell of the first cell type, wherein said second cell comprises a wild-type tumor suppressor expression;

- (c) identifying genes having an increased level of expression in the first cell as compared to the second cell; and
- (d) selecting at least one gene of step (c) as a diagnostic marker for a cancer.

In a related aspect, the invention further comprises a method of identifying a tissue-specific diagnostic marker for a cancer comprising a) obtaining a first cell from a second cell type of the cancer, the cell comprising a defective tumor suppressor expression; b) obtaining a second cell of the second cell type, wherein the second cell comprises a wild-type tumor suppressor expression; c) identifying genes having an increased level of expression in the first cell of the second cell type as compared to the second cell of the second cell type; d) comparing the genes having an increased expression in the first cell type with the genes having an increased expression in the second cell type; e) identifying genes having an increased expression in the first cell type but not in the second cell type; and f) selecting at least one gene of step (e) as a diagnostic marker of a cancer of the first cell type.

The identification step of both methods (steps (c) or e) above, respectively) may be performed using a microarray; in addition, the tumor suppressor in question may be p53, Rb1 and PTEN as well as any other tumor suppressor gene deemed suitable. A list of possible tumor suppressor genes is provided herein.

In certain embodiments, the diagnostic marker is a secreted product of the first cell type. In certain embodiments, the selected gene is not expressed in other tissue irrespective of its status. In other embodiments, the diagnostic marker is a membrane bound marker that localizes to the cell membrane of the first cell type. In specific embodiments, the tumor suppressor is selected from the group consisting of p53, Rb1, APC; BRCA1; BRCA2; CDH1; p57, p16, CYLD; p300; EXT1; EXT2; MADH4; MAP2K4; MEN1; HNPCC2; MSH2; NF1; NF2; PRKAR1A; PTCH; PTEN; SDHD; SMARCB1; STK11; TSC1; TSC2; VHL and WT1.

An additional embodiment of the invention concerns a method for screening for compounds that modulate the activity of a tumor suppressor gene comprising: a) obtaining a cell comprising a defective tumor suppressor expression;

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b) measuring the level of expression of a marker of Table 5 or 6 in the cell; c) contacting the cell with a test compound; and d) measuring the expression of the marker of step b) after the contacting step c), wherein a change in the level of expression after the contacting step as compared to the level of expression before the contacting step is indicative of the ability of the compound to modulate the activity of the tumor suppressor gene.

The tumor suppressor in question may be selected from the tumor suppressor group consisting of, *inter alia*, p53, Rb1, APC; BRCA1; BRCA2; CDH1; p57, p16, CYLD; p300; EXT1; EXT2; MADH4; MAP2K4; MEN1; HNPCC2; MSH2; NF1; NF2; PRKAR1A; PTCH; PTEN; SDHD; SMARCB1; STK11; TSC1; TSC2; VHL and WT1. The test compound may be a small chemical molecule. The measuring of steps b) and d) may comprise monitoring the level of mRNA of the marker or the level of the polypeptide of the marker, according to methods well known in the art and described herein. In addition, the change in the level of expression in step d) may be a reduction in the level of expression, in which case compounds identified according to said method may be employed in the treatment of cancer, possibly as anti-cancer drugs.

The term "small chemical molecule" is used interchangeably with "chemical compound", and is understood to refer to chemical moieties of any particular type which are not necessarily, but may be, naturally occurring and typically have a molecular weight of less than 2000 daltons, more preferably less than 1000 daltons.

Another aspect of the invention provides a microarray composition for measuring tissue-specific gene expression comprising at least 4 polynucleotides from tables 5 and 6. The invention further contemplates a method of diagnosing a cancer comprising contacting a cell sample nucleic acid with a microarray described herein under conditions suitable for hybridization; providing hybridization conditions suitable for hybrid formation between said cell sample nucleic acid and a polynucleotide of said microarray; detecting said hybridization; and diagnosing a cancer based on the results of detecting said hybridization.

Further in this aspect, an antibody microarray is provided. Said microarray comprises at least 4 antibodies directed against polypeptides corresponding to the polynucleotides given in Tables 5 and 6. The invention further

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contemplates a method of diagnosing a cancer comprising contacting a bodily fluid sample with the antibody microarray described herein, and detecting hybridization between the antibodies present on the array and at least one polypeptide present in the bodily fluid, the results of said detection enabling a diagnosis or a prognosis of a cancer.

The invention further contemplates a vector comprising a polynucleotide having a sequence of a tissue specific tumor marker identified according to the invention. Also contemplated is a cell transformed or transfected with such a vector.

Another aspect of the invention is directed to a method of treating cancer in a patient, wherein said treatment is effected through the decrease in expression of a tumor marker gene. In preferred embodiments, a polynucleotide is administered to cancer cells of a patient. The polynucleotide comprises an antisense sequence of said tissue-specific tumor marker in those embodiments where the tissue-specific tumor marker is up-regulated as a result of loss of function of the tumor suppressor, whereas the polynucleotide comprises a sense coding sequence of said tissue-specific tumor marker in those embodiments where the tissue specific marker is down-regulated as a result of loss of function of the tumor suppressor. In specific embodiments, the cancer cells of the patient harbor a mutant tumor suppressor gene selected from the group consisting of p53, Rb1, APC; BRCA1; BRCA2; CDH1; p57, p16, CYLD; p300; EXT1; EXT2; MADH4; MAP2K4; MEN1; HNPCC2; MSH2; NF1; NF2; PRKAR1A; PTCH; PTEN; SDHD; SMARCB1; STK11; TSC1; TSC2; VHL and WT1.

By "homolog/homology", as related to polynucleotides and polypeptides and used herein, is meant at least about 70%, preferably at least about 75% homology, advantageously at least about 80% homology, more advantageously at least about 90% homology, even more advantageously at least about 95%, e.g., at least about 97%, about 98%, about 99% or even about 100% homology. The invention also comprehends that these polynucleotides and polypeptides can be used in the same fashion as the herein or aforementioned polynucleotides and polypeptides.

Alternatively or additionally, "homology", with respect to sequences, can refer to the number of positions with identical nucleotides or amino acid residues, divided by the number of nucleotides or amino acid residues in the shorter of the two sequences, wherein alignment of the two sequences can be determined in accordance

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with the Wilbur and Lipman algorithm ((1983) Proc. Natl. Acad. Sci. USA 80:726), for instance, using a window size of 20 nucleotides, a word length of 4 nucleotides, and a gap penalty of 4, and computer-assisted analysis and interpretation of the sequence data, including alignment can be conveniently performed using commercially available programs (e.g., IntelligeneticsTM Suite, Intelligenetics Inc., CA). When RNA sequences are said to be similar, or to have a degree of sequence identity or homology with DNA sequences, thymidine (T) in the DNA sequence is considered equal to uracil (U) in the RNA sequence. RNA sequences within the scope of the invention can be derived from DNA sequences or their complements, by substituting thymidine (T) in the DNA sequence with uracil (U).

Additionally or alternatively, amino acid sequence similarity or homology can be determined, for instance, using the BlastP program (Altschul *et al.*, Nucl. Acids Res. 25:3389-3402) and available at NCBI. The following references provide algorithms for comparing the relative identity or homology of amino acid residues of two polypeptides, and additionally, or alternatively, with respect to the foregoing, the teachings in these references can be used for determining percent homology: Smith *et al.*, (1981) Adv. Appl. Math. 2:482-489; Smith *et al.*, (1983) Nucl. Acids Res. 11:2205-2220; Devereux *et al.*, (1984) Nucl. Acids Res. 12:387-395; Feng *et al.*, (1987) J. Molec. Evol. 25:351-360; Higgins *et al.*, (1989) CABIOS 5:151-153; and Thompson *et al.*, (1994) Nucl. Acids Res. 22:4673-4680.

The term "polynucleotide" refers to any molecule which comprises two or more of the bases guanidine, citosine, timidine, adenine, uracil or inosine, inter alia, or chemical analogs thereof, includes "oligonucleotides" and encompasses "nucleic acids". Preferably, a polynucleotide has from about 75 to 10,000 nucleotides, more preferably from about 100 to 3,500 nucleotides. An oligonucleotide refers generally to a chain of nucleotides extending from 2-75 nucleotides.

By the term "polypeptide" is meant a molecule composed of amino acids and the term includes peptides, polypeptides, proteins and peptidomimetics; dominant polypeptide fragments are also considered to be polypeptides.

The term "amino acid" refers to any one of the 20 naturally occurring amino acids, and also amino acids which have been chemically modified or synthetic amino acids.

The invention provides methods for the identification of marker gene targets for both diagnostic and therapeutic applications in any given cancer type. In

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certain embodiments, these methods use a combination of recently developed powerful functional gene cloning methodologies with cDNA array-based gene expression profiling and rationally designed experimental models. Diagnostic and therapeutic value of the identified genes may then be evaluated using specific inhibitors and antibodies according to methods well known to those of skill in the art.

By identifying those genes that are specifically upregulated (or indeed downregulated) in cancer cells as a result of tumor suppressor regulation, the invention provides markers of advanced stages of cancer. More specifically, the invention relates to identifying potential targets of tumor suppressor regulation associated with early and advanced stages of the disease by performing micro-array hybridization and analyses using model cancer cell line(s) or primary normal cell cultures that retain wild-type tumor suppressor activity and engineering a variant of such a cell line or primary cells in which the tumor suppressor is inactivated. Alternatively, the tissue pairs for comparison will be normal animal tissues and the same cancer-free tissues from genetically modified animals in which a tumor suppressor gene of interest was knocked out.

The methods of the invention generally provide a systematic approach for the search of cancer markers or targets for therapeutic intervention among the genes normally under negative control of tumor suppressor proteins. Many such genes are transcriptionally activated in tissues following the wild-type activity loss of the most common tumor suppressor genes, such as p53, PTEN, RB, and p16/p19 and this regulation is conserved in normal and tumor cells from the same origin. The methods of the invention may be performed by comparing gene expression profiles in the isogenic pairs of cell lines or tissues differing in their tumor suppressor gene status or tissue pairs derived from normal and genetically modified mice, with inactivated tumor suppressors, i.e. p53 -/- mice, p16/p19-/- mice, and mice with targeted expression of, e.g., SV40 large T antigen that simultaneously inactivates both RB and p53 function (TRAMP mice).

In an exemplary model for the invention, the inventors created an isogenic pair of LNCaP prostate tumor cell lines differing in their p53 status and applied cDNA microarray analysis to identify differentially expressed genes. These investigations revealed that the baseline expression of several known tumor markers is significantly elevated in LNCaP cells that lack functional p53 protein compared to the same cells that express wt p53. These genes include e.g., COX2, tumor-specific

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heparin-binding growth factor midkine (which possesses angiogenic and anti-apoptotic properties) (Ikematsu *et al.*, *Br J Cancer*, 83(6):701-706 (2000), tumor tissue associated hyaluronan receptor CD44 and PSA (prostate specific antigen). COX2 inhibitors are currently in clinical trials against prostate cancer. Midkine was immunohistochemically shown to be expressed in 86.3% of prostate cancer specimens examined, with metastatic lesions generally showing higher expression than the corresponding primaries; normal prostate tissues were negative or showed only weak staining. Midkine was also detected in 12 of 15 latent cancers (80%) and in 12 of 16 cases of PIN (75%) (Konishi *et al.*, *Oncology*; 57(3):253-257 (1999).

PSA is the major prostate cancer diagnostic marker currently used commercially. In the invention, it was shown that the PSA promoter is directly suppressed by wt p53, thus PSA up-regulation in prostate cancer is indicative of the loss of wt p53 function. The list of genes the expression of which was changed following wt p53 suppression in LNCaP cells is attached in Table 1. Having determined that it is thus possible to identify the differential expression of genes that are regulated by suppression of the wild-type tumor suppressor, the inventors further demonstrate large-scale microarray-based comparison of gene-expression profiles in the tissue pairs derived from normal and p53-/- mice.

Poly A RNA was extracted from spleen, pancreas, liver, stomach, intestine, colon, lung, brain, bladder, kidney, placenta/uterus and mammary glands of normal and p53-deficient mice and used for fluorescently-labeled probes for microarray hybridizations. The differential (against common control) gene expression levels were normalized between p53-/- tissues and their corresponding normal counterparts. (Table 2). These data were then sorted according to their expression levels in one particular tissue from maximally up-regulated genes to maximally down-regulated genes, thereby identifying genes with maximal differential tissue-specific expression in p53-deficient mice.

Of the identified genes, the tumor makers will be those that are found to be up-regulated in p53-/-tissues. Table 3 lists such genes; the table combines the p53-dependent differential expression data with the tissue specificity of gene expression data. Differential expression of the genes may be determined using any technique well known to those of skill in the art. Such techniques include determining differential expression using cDNA or oligonucleotide microarrays as described herein below, as well as differential display techniques well known to those

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of skill in the art. Gene subtraction techniques also may be used. Also contemplated for determining differential expression of genes is SAGE (Velculescu *et al.*, *Science*, 270:484-487 (1995); Zhang *et al.*, *Science*, 276:1268-1272 (1997).

For effective selection of cancer diagnostic markers, the following 5 criteria were applied:

- (1) genes that are up-regulated in a certain p53-/- tissue and are normally expressed predominantly in that tissue are useful for diagnosis both in tissues and in bodily fluids. Table 5 is derived from Table 3 and contains a list of the preferred genes which can serve as markers of this type (the highlighted genes are highly preferred).
- (2) genes that are normally expressed at certain levels in one or several tissues but are up-regulated in one or numerous p53-/- tissues as compared to the same tissue having normal p53 status are useful for diagnosis primarily in tissues. Table 6 is derived from Table 2 and contains a list of the preferred markers of this type, sorted according to the tissue in which they are preferred for diagnosis. Both tables are prioritized, so that, for example, under the heading "pancreas" in Table 6 or in sheet 11 of Table 2, the first marker listed, pancreatitis associated protein, is the most preferred marker for pancreatic cancer.

Table 3 contains 445 genes identified as being up-regulated in p53-/tissues, which can serve as tissue specific cancer markers and for bodily-fluid cancer
diagnosis, depending on their level of expression in normal tissues, which tissues they
are normally expressed in, and whether they are secreted.

The genes identified according to the invention will prove useful in diagnostic and prognostic application as well as act as drug targets for therapeutic intervention of the diseased state. Negative regulation by tumor suppressor genes and tissue specificity of expression are two essential characteristics of prospective tumor markers/drug targets. However, in order to be suitable for diagnostic assays, the gene products ideally, but not necessarily, also need to be secreted into blood, urine, saliva or any other accessible body fluids for detection. Alternatively, the gene products are such that they are expressed at the cell surface and are therefore amenable to detection using ordinary techniques known to those of skill in the art, e.g., detection of cell surface expression of the gene products using antibodies or ligand/receptor interactions. Membrane-bound and cytosolic RNA may be distinguished based on the fact that mRNA of genes, encoding secreted or membrane proteins is bound to

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membrane-associated polysomes and may be separated from other mRNAs by sedimentation equilibrium or sedimentation velocity (Diehn *et al.*, *Nat. Genet.*, 25:58-62, 2000). RNA from membrane or cytosolic fraction of cells will be isolated using standard protocol and used for synthesis of fluorescently labeled probe from each fraction. Isolation of membrane-bound polysomes from cell lines preferably is carried out according to published protocol (Diehn *et al.*, *Nat. Genet.*, 25:58-62 (2000). *See* also U.S. Patent No. 6,403,316.

In summary, the inventors defined genes characterized in regard to tissue-specificity of the normal expression of these genes and induction/reduction in various p53-deficient tissues. The above-articulated method, while exemplified in terms of p53 regulation, may be performed with any tumor suppressor known to those of skill in the art to identify tissue-specific markers of cancers. In addition to p53, tumor suppressors such as Rb1, APC; BRCA1; BRCA2; CDH1; p57, p16, CYLD; p300; EXT1; EXT2; MADH4; MAP2K4; MEN1; HNPCC2; MSH2; NF1; NF2; PRKAR1A; PTCH; PTEN; SDHD; SMARCB1; STK11; TSC1; TSC2; VHL; WT1, are exemplary tumor suppressors that may be employed to identify tissue-specific tumor marker genes according to the invention. This is by no means an exhaustive list and those of skill in the art will be aware of other tumor suppressors that may be used in the methods herein. Those of skill in the art will readily be able to obtain the sequences for these tumor suppressor genes from Genbank.

I. Diagnostic Methods of Using Identified Markers

In the genetic diagnostic applications of the invention, one of skill in the art would detect variations in the expression of one or more of the tissue-specific tumor markers. This may comprise determining the mRNA level of the gene(s) or determining specific alterations in the expressed gene product(s). The cancers that may be diagnosed according to the invention include cancers of the brain (glioblastomas, medulloblastoma, astrocytoma, oligodendroglioma, ependymomas), lung, liver, spleen, kidney, pancreas, intestine, blood cells, lymph node, colon, breast, endometrium, stomach, prostate, testicle, ovary, skin, head or neck, esophagus, bone marrow, blood or other tissue.

The biological sample can be any tissue or fluid. Various embodiments include cells of the skin, muscle, facia, brain, prostate, breast, endometrium, lung,

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head or neck, pancreas, small intestine, blood cells, liver, testes, ovaries, colon, skin, stomach, esophagus, spleen, lymph node, bone marrow or kidney. Other embodiments include fluid samples such as peripheral blood, lymph fluid, ascites, serous fluid, pleural effusion, sputum, cerebrospinal fluid, lacrimal fluid, synovial fluid, saliva, stool or urine.

Nucleic acids can be isolated from cells contained in the biological sample, according to standard methodologies (Sambrook *et al.*, 1989). The nucleic acid may be whole RNA. It may be used for Northern blotting analysis or may be converted to a complementary DNA (cDNA). In one embodiment, the RNA is whole cell RNA; in another, it is poly-A RNA. cDNA may be used for preparation of probes for microarray hybridization or may be amplified in PCR reaction (RT-PCR).

In situ hybridization using a labeled nucleic acid probe is performed essentially as known in the art and incorporated herein by reference.

Depending on the format, the specific nucleic acid of interest is identified in the sample directly using amplification or by hybridization to a labeled (radioactively or fluorescently) nucleic acid probe. Next, the identified amplified product is detected. In certain applications, the detection may be performed by visual means (e.g., ethidium bromide staining of a gel). Alternatively, the detection may involve indirect identification of the product via chemiluminescence, radioactive scintigraphy of radiolabel or fluorescent label or even via a system using electrical or thermal impulse signals (Affymax Technology; Bellus, 1994).

A. Microarray Analyses

In certain preferred embodiments, DNA-based arrays provide a convenient way to explore the expression of a single polymorphic gene or a large number of genes for a variety of applications. The tissue-specific tumor marker nucleic acids identified by the invention may be presented in a DNA microarray for the analysis and expression of these genes in various cancer cell types. Microarray chips are well known to those of skill in the art (see, e.g., U.S. Patent Nos. 6,308,170; 6,183,698; 6,306,643; 6,297,018; 6,287,850; 6,291,183, each incorporated herein by reference). These are exemplary patents that disclose nucleic acid microarrays and those of skill in the art are aware of numerous other methods and compositions for producing microarrays.

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In addition, protein and antibody microarrays are well known in the art (see, for example: Ekins R.P., *J Pharm Biomed Anal* 1989. 7: 155; Ekins R.P. and Chu F.W., *Clin Chem* 1991. 37: 1955; Ekins R.P. and Chu F.W, *Trends in Biotechnology*, 1999, 17, 217-218). Antibody microarrays directed against a combination of the diagnostic markers disclosed herein will be very useful for the diagnosis of cancer markers in bodily fluids.

The invention provides for a composition comprising a plurality of polynucleotides identified according to the methods of the invention. As used herein, the term "polynucleotide probe" refers to any nucleic acid sequences identified according to the invention as a marker for a given cancer. Preferably, the polynucleotide fragment is at least 9 nucleotides; more preferably, it is at least 20 nucleotides. Such a composition can be employed for the diagnosis and treatment of neoplastic disorder.

The composition is particularly useful as hybridizable array elements in a microarray for monitoring the expression of a plurality of target polynucleotides. The microarray comprises a substrate and the hybridizable array elements. The microarray is used, for example, in the diagnosis and treatment of a cancer.

The term "microarray" refers to an ordered arrangement of hybridizable array elements. The array elements are arranged so that there are preferably at least two or more different array elements, more preferably at least 100 array elements, and most preferably at least 1,000 array elements, on a 1 cm² substrate surface. The hybridization signal from each of the array elements is individually distinguishable. In a preferred embodiment, the array elements comprise polynucleotide probes. In another preferred embodiment, the array elements comprise antibodies.

The term "probe" refers to a polynucleotide sequence capable of hybridizing with a target sequence to form a polynucleotide probe/target complex. A "target polynucleotide" refers to a chain of nucleotides to which a polynucleotide probe can hybridize by base pairing. In some instances, the sequences will be complementary (no mismatches) when aligned. In other instances, there may be up to a 10% mismatch.

Alternatively, the term "probe" may refer to a polypeptide probe that can hybridize to an antibody.

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A "plurality" refers preferably to a group of at least 15 or more members, more preferably to a group of at least about 100, and even more preferably to a group of at least about 1,000, members. The maximum number of members is unlimited, but is at least about 100,000 members.

The term "gene" or "genes" refers to a polynucleotide sequence(s) of a gene, which may be the partial or complete sequence of the gene and may comprise regulatory region(s), untranslated region(s), or coding regions.

The polynucleotide or antibody microarray can be used for large-scale genetic or gene expression analysis of a large number of target polynucleotides or polypeptides respectively. The microarray can also be used in the diagnosis of diseases and in the monitoring of treatments. Further, the microarray can be employed to investigate an individual's predisposition to a disease. Furthermore, the microarray can be employed to investigate cellular responses to infection, drug treatment, and the like.

When the composition of the invention is employed as hybridizable array elements in a microarray, the array elements are organized in an ordered fashion so that each element is present at a distinguishable, and preferably specified, location on the substrate. In the preferred embodiments, because the array elements are at specified locations on the substrate, the hybridization patterns and intensities (which together create a unique expression profile) can be interpreted in terms of expression levels of particular genes and can be correlated with a particular disease or condition or treatment.

The composition comprising a plurality of polynucleotide probes can also be used to purify a subpopulation of mRNAs, cDNAs, genomic fragments and the like, in a sample. Typically, samples will include target polynucleotides of interest and other nucleic acids which may enhance the hybridization background; therefore, it may be advantageous to remove these nucleic acids from the sample. One method for removing the additional nucleic acids is by hybridizing the sample containing target polynucleotides with immobilized polynucleotide probes under hybridizing conditions. Those nucleic acids that do not hybridize to the polynucleotide probes are removed and may be subjected to analysis or discarded. At a later point, the immobilized target polynucleotide probes can be released in the form of purified target polynucleotides.

1. Microarray Production

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The nucleic acid probes can be genomic DNA or cDNA or mRNA, or any RNA-like or DNA-like material, such as peptide nucleic acids, branched DNAs, and the like. The probes can be sense or antisense polynucleotide probes. Where target polynucleotides are double-stranded, the probes may be either sense or antisense strands. Where the target polynucleotides are single-stranded, the probes are complementary single strands.

In one embodiment, the probes are cDNAs. The size of the DNA sequence of interest may vary and is preferably from 100 to 10,000 nucleotides, more preferably from 150 to 3,500 nucleotides.

The probes can be prepared by a variety of synthetic or enzymatic schemes, which are well known in the art. The probes can be synthesized, in whole or in part, using chemical methods well known in the art (Caruthers *et al.*, *Nucleic Acids Res.*, *Symp. Ser.*, 215-233 (1980). Alternatively, the probes can be generated, in whole or in part, enzymatically.

Nucleotide analogs can be incorporated into the probes by methods well known in the art. The only requirement is that the incorporated nucleotide analog must serve to base pair with target polynucleotide sequences. For example, certain guanine nucleotides can be substituted with hypoxanthine, which base pairs with cytosine residues. However, these base pairs are less stable than those between guanine and cytosine. Alternatively, adenine nucleotides can be substituted with 2,6-diaminopurine, which can form stronger base pairs than those between adenine and thymidine.

Additionally, the probes can include nucleotides that have been derivatized chemically or enzymatically. Typical chemical modifications include derivatization with acyl, alkyl, aryl or amino groups.

The polynucleotide probes can be immobilized on a substrate. Preferred substrates are any suitable rigid or semi-rigid support including membranes, filters, chips, slides, wafers, fibers, magnetic or nonmagnetic beads, gels, tubing, plates, polymers, microparticles and capillaries. The substrate can have a variety of surface forms, such as wells, trenches, pins, channels and pores, to which the polynucleotide probes are bound. Preferably, the substrates are optically transparent.

Complementary DNA (cDNA) can be arranged and then immobilized on a substrate. The probes can be immobilized by covalent means such as by chemical bonding procedures or UV. In one such method, a cDNA is bound to a glass surface

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which has been modified to contain epoxide or aldehyde groups. In another case, a cDNA probe is placed on a polylysine coated surface and then UV cross-linked (Shalon *et al.*, PCT publication WO95/35505, herein incorporated by reference). In yet another method, a DNA is actively transported from a solution to a given position on a substrate by electrical means (Heller *et al.*, U.S. Pat. No. 5,605,662). Alternatively, individual DNA clones can be gridded on a filter. Cells are lysed, proteins and cellular components degraded, and the DNA coupled to the filter by UV cross-linking.

Furthermore, the probes do not have to be directly bound to the substrate, but rather can be bound to the substrate through a linker group. The linker groups are typically about 6 to 50 atoms long to provide exposure to the attached probe. Preferred linker groups include ethylene glycol oligomers, diamines, diacids and the like. Reactive groups on the substrate surface react with one of the terminal portions of the linker to bind the linker to the substrate. The other terminal portion of the linker is then functionalized for binding the probe.

The probes can be attached to a substrate by dispensing reagents for probe synthesis on the substrate surface or by dispensing preformed DNA fragments or clones on the substrate surface. Typical dispensers include a micropipette delivering solution to the substrate with a robotic system to control the position of the micropipette with respect to the substrate. There can be a multiplicity of dispensers so that reagents can be delivered to the reaction regions simultaneously.

Alternatively, as mentioned above, antibody microarrays can be produced. The production of such microarrays is essentially as described in Schweitzer & Kingsmore, "Measuring proteins on microarrays", *Curr Opin Biotechnol* 2002; 13(1): 14-9; Avseenko et al., "Immobilization of proteins in immunochemical microarrays fabricated by electrospray deposition", *Anal Chem* 2001 15; 73(24): 6047-52; Huang, "Detection of multiple proteins in an antibody-based protein microarray system, *Immunol Methods* 2001 1; 255 (1-2): 1-13. In general, protein microarrays may be produced essentially as described in Schena et al., Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes. *Proc. Natl. Sci. USA* (1996) 93, 10614-10619; U.S. Patent Nos. 6,291,170 and 5,807,522 (see above); US patent No. 6,037,186 (Stimpson, inventor) "Parallel production of high density arrays"; PCT publications WO 99/13313 (Genovations Inc [US], applicant) "Method of making high density arrays"; WO 02/05945 (Max-

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Delbruck-center for molecular medicine [Germany], applicant) "Method for producing microarray chips with nucleic acids, proteins or other test substrates".

2. Sample Preparation for Genetic Analysis

In order to conduct sample analysis, a sample containing target polynucleotides or polypeptides is provided. The samples can be any sample containing target polynucleotides or polypeptides and obtained from any bodily fluid (blood, sperm, urine, saliva, phlegm, gastric juices, etc. as described herein), cultured cells, biopsies, or other tissue preparations. The samples being analyzed using the microarrays will likely be samples from individuals suspected of suffering from a given cancer. In one embodiment, the microarrays used are those that contain tumor markers specific for that cancer or antibodies against those markers.

DNA or RNA can be isolated from the sample according to any of a number of methods well known to those of skill in the art. For example, methods of purification of nucleic acids are described in Tijssen Laboratory Techniques in Biochemistry and Molecular Biology: Hybridization With Nucleic Acid Probes, Part I. Theory and Nucleic Acid Preparation, Elsevier, New York N.Y. 1993. In one case, total RNA is isolated using the TRIZOL reagent (Life Technologies, Gaithersburg Md.), and mRNA is isolated using oligo d(T) column chromatography or glass beads. Alternatively, when target polynucleotides are derived from an mRNA, the target polynucleotides can be a cDNA reverse-transcribed from an mRNA, an RNA transcribed from that cDNA, and the like. When the target polynucleotide is derived from DNA, the target polynucleotide can be DNA amplified from DNA or RNA reverse transcribed from DNA. In yet another alternative, the targets are target polynucleotides prepared by more than one method.

When target polynucleotides are amplified, it is desirable to amplify the nucleic acid sample and maintain the relative abundances of the original sample, including low abundance transcripts. Total mRNA can be amplified by reverse transcription using a reverse transcriptase and a primer consisting of oligo d(T) and a sequence encoding the phage T7 promoter to provide a single-stranded DNA template. The second DNA strand is polymerized using a DNA polymerase and a RNAse which assists in breaking up the DNA/RNA hybrid. After synthesis of the double-stranded DNA, T7 RNA polymerase can be added, and RNA transcribed from

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the second DNA strand template (Van Gelder *et al.* U.S. Pat. No. 5,545,522). RNA can be amplified *in vitro*, *in situ* or *in vivo* (See Eberwine, U.S. Pat. No. 5,514,545).

Quantitation controls may be included within the sample to assure that amplification and labeling procedures do not change the true distribution of target polynucleotides in a sample. For this purpose, a sample is spiked with a known amount of a control target polynucleotide and the composition of probes includes reference probes which specifically hybridize with the control target polynucleotides. After hybridization and processing, the hybridization signals obtained should accurately the amounts of control target polynucleotide added to the sample.

Prior to hybridization, it may be desirable to fragment the nucleic acid target polynucleotides. Fragmentation improves hybridization by minimizing secondary structure and cross-hybridization to other nucleic acid target polynucleotides in the sample or noncomplementary polynucleotide probes. Fragmentation can be performed by mechanical or chemical means.

Antibodies against the relevant cancer marker polypeptides and appropriate for attachment to an antibody microarray can be prepared according to methods known in the art (Coligan et al, Unit 9, Current Protocols in Immunology, Wiley Interscience, 1994; Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Laboratory, New York (1988). Additional information regarding all types of antibodies, including humanized antibodies, human antibodies and antibody fragments can be found in WO 01/05998).

Polypeptides can be prepared for hybridization to an antibody microarray from a sample, such as a bodily fluid sample, according to methods known in the art. It may be desirable to purify the proteins from the sample or alternatively, to remove certain impurities which may be present in the sample and interfere with hybridization. Protein purification is practiced as is known in the art as described in, for example, Marshak et al., "Strategies for Protein Purification and Characterization. A laboratory course manual." CSHL Press (1996).

The target polynucleotides or polypeptides may be labeled with one or more labeling moieties to allow for detection of hybridized probe/target complexes. The labeling moieties can include compositions that can be detected by spectroscopic, photochemical, biochemical, bioelectronic, immunochemical, electrical, optical or chemical means. The labeling moieties include radioisotopes, such as ³H, ¹⁴C, ³²P, ³³P or ³⁵S, chemiluminescent compounds, labeled binding proteins, heavy metal atoms,

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spectroscopic markers, such as fluorescent markers and dyes, magnetic labels, linked enzymes, mass spectrometry tags, spin labels, electron transfer donors and acceptors, and the like.

Exemplary dyes include quinoline dyes, triarylmethane dyes, phthaleins, azo dyes, cyanine dyes, and the like. Preferably, fluorescent markers absorb light above about 300 nm, preferably above 400 nm, and usually emit light at wavelengths at least greater than 10 nm above the wavelength of the light absorbed. Preferred fluorescent markers include fluorescein, phycoerythrin, rhodamine, lissamine, and C3 and C5 available from Amersham Pharmacia Biotech (Piscataway N.J.).

Nucleic acid labeling can be carried out during an amplification reaction, such as polymerase chain reactions and *in vitro* transcription reactions, or by nick translation or 5' or 3'-end-labeling reactions. When the label may be incorporated after or without an amplification step, the label is incorporated by using terminal transferase or by phosphorylating the 5' end of the target polynucleotide using, e.g., a kinase and then incubating overnight with a labeled oligonucleotide in the presence of T4 RNA ligase. Alternatively, the labeling moiety can be incorporated after hybridization once a probe/target complex has formed.

Polypeptide labeling can be conducted using a variety of techniques well known in the art, and the choice of the technique(s) can be tailored to the polypeptide in question according to criteria known to one of skill in the art. Specifically, polypeptides can be fluorescently labeled with compounds such as FITC or rhodamin, essentially as described in Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Laboratory, New York (1988), in particular pages 353-356, or with other fluorescent compounds such as nile red or 2-methoxy-2,4-diphenyl-3(2H)furanone (Daban: *Electrophoresis* 2001; 22(5): 874-80). Polypeptides can also be labeled with a detectable protein such as GFP (detection based on fluorescence) or the vitamin biotin (detection with streptavidin). Polypeptides can also be radioactively labeled with the isotope S³⁵. Additional methods are widely known in the art.

3. Use of Gene Sequences for Diagnostic Purposes

In certain embodiments, the tissue-specific tumor markers identified herein may be used for the diagnosis of advanced stages of cancer in the given tissue for which the markers are specific. The polynucleotide sequences encoding the tissue specific tumor marker or the polypeptide encoded thereby, where appropriate, may be

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used in in-situ hybridization or RT-PCR assays of fluids or tissues from biopsies to detect abnormal gene expression. Such methods may be qualitative or quantitative in nature and may include Southern or Northern analysis, dot blot or other membrane-based technologies; PCR technologies; chip based technologies (for nucleic acid detection) and dip stick, pin, ELISA and protein-chip technologies (for the detection of polypeptides). All of these techniques are well known in the art and are the basis of many commercially available diagnostic kits.

In addition, such assays may be useful in evaluating the efficacy of a particular therapeutic treatment regime in animal studies, in clinical trials, or in monitoring the treatment of an individual patient. Such monitoring may generally employ a combination of body fluids or cell extracts taken from normal subjects, either animal or human, under conditions suitable for hybridization or amplification. Standard hybridization may be quantified by comparing the values obtained for normal subjects with a dilution series of a tissue-specific tumor marker gene product run in the same experiment where a known amount of purified gene product is used. Standard values obtained from normal samples may be compared with values obtained from samples from cachectic subjects affected by abnormal gene expression in tumor cells. Deviation between standard and subject values establishes the presence of disease.

Generally, the tissue-specific tumor markers are chosen based on the specificity of their expression in tumors as well as on the high correlation of the reactivity of corresponding antibodies with tumor specimens in ELISA and tissue arrays may be used for development of serological screening procedure. For example, in the context of prostate-specific tumor markers, a large scale analysis of serum and sperm samples obtained from normal donors of different age (before and after 60), patients with different grades and types of prostate carcinoma, androgen dependent and androgen independent, with local, recurrent and metastatic disease, patients with tumors of other than prostate origin, as well as patients with noncancerous diseases of prostate may be tested by ELISA on the presence and concentration of the potential candidate polypeptide(s). Then statistical analyses may be performed to evaluate whether the prostate samples express candidate(s) at different levels based on different parameters (histopathological type, Gleason score, tumor size, disease or PSA recurrence).

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Once disease is established, a therapeutic agent is administered; and a treatment profile is generated. Such assays may be repeated on a regular basis to evaluate whether the values in the profile progress toward or return to the normal or standard pattern. Successive treatment profiles may be used to show the efficacy of treatment over a period of several days or several months.

PCR as described in U.S. Patent Nos. 4,683,195 and 4,965,188 provides additional uses for oligonucleotides specific for the tissue-specific tumor marker genes. Such oligomers are generally chemically synthesized, but they may be generated enzymatically or produced from a recombinant source as described herein above. Oligomers generally comprise two nucleotide sequences, one with sense orientation and one with antisense orientation, employed under optimized conditions for identification of a specific gene or condition. The same two oligomers, nested sets of oligomers, or even a degenerate pool of oligomers may be employed under less stringent conditions for detection and/or quantitation of closely related DNA or RNA sequences. Methods of performing RT-PCR are standard in the art and the method may be carried out using commercially available kits.

Additionally, methods to quantitate the expression of a particular molecule include radiolabeling (Melby et al., J Immunol Methods, 159: 235-244 (1993) or biotinylating (Duplaa et al., Anal Biochem, 229-236 (1993) nucleotides, coamplification of a control nucleic acid, and standard curves onto which the experimental results are interpolated. Quantitation of multiple samples may be speeded up by running the assay in an ELISA-like format where the oligomer of interest is presented in various dilutions and a spectrophotometric or colorimetric response gives rapid quantitation. For example, the presence of abnormal levels of a tissue-specific tumor marker in extracts of biopsied tissues will be indicative of the onset of a cancer. A definitive diagnosis of this type may allow health professionals to begin aggressive treatment and prevent further worsening of the condition. Similarly, further assays can be used to monitor the progress of a patient during treatment.

4. Hybridization and Detection in Microarrays

Hybridization causes a denatured probe and a denatured complementary target to form a stable nucleic acid duplex through base pairing. Hybridization methods are well known to those skilled in the art (See, e.g., Ausubel, Short Protocols in Molecular Biology, John Wiley & Sons, New York N.Y., units 2.8-2.11, 3.18-3.19 and 4-6-4.9, 1997). Conditions can be selected for hybridization

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where an exactly complementary target and probes can hybridize, i.e., each base pair must interact with its complementary base pair. Alternatively, conditions can be selected where a target and probes have mismatches but are still able to hybridize. Suitable conditions can be selected, for example, by varying the concentrations of salt in the prehybridization, hybridization and wash solutions, by varying the hybridization and wash temperatures, or by varying the polarity of the prehybridization, hybridization or wash solutions.

Hybridization can be performed at low stringency with buffers, such as 6 x SSPE with 0.005% Triton X-100 at 37°C, which permits hybridization between target and probes that contain some mismatches to form target polynucleotide/probe complexes. Subsequent washes are performed at higher stringency with buffers, such as 0.5 x SSPE with 0.005% Triton X-100 at 50°C, to retain hybridization of only those target/probe complexes that contain exactly complementary sequences. Alternatively, hybridization can be performed with buffers, such as 5 x SSC/0.2% SDS at 60°C and washes are performed in 2 x SSC/0.2% SDS and then in 0.1x SSC. Background signals can be reduced by the use of detergent, such as sodium dodecyl sulfate, Sarcosyl or Triton X-100, or a blocking agent, such as salmon sperm DNA.

After hybridization, the microarray is washed to remove nonhybridized nucleic acids, and complex formation between the hybridizable array elements and the target polynucleotides is detected. Methods for detecting complex formation are well known to those skilled in the art. In a preferred embodiment, the target polynucleotides are labeled with a fluorescent label, and measurement of levels and patterns of fluorescence indicative of complex formation is accomplished by fluorescence microscopy, preferably confocal fluorescence microscopy. An argon ion laser excites the fluorescent label, emissions are directed to a photomultiplier, and the amount of emitted light is detected and quantitated. The detected signal should be proportional to the amount of probe/target polynucleotide complex at each position of the microarray. The fluorescence microscope can be associated with a computer-driven scanner device to generate a quantitative two-dimensional image of hybridization intensity. The scanned image is examined to determine the abundance/expression level of each hybridized target polynucleotide.

Typically, microarray fluorescence intensities can be normalized to take into account variations in hybridization intensities when more than one microarray is used under similar test conditions. In a preferred embodiment,

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individual probe/target hybridization intensities are normalized using the intensities derived from internal normalization controls contained on each microarray.

Protein or antibody microarray hybridization is carried out essentially as described in Ekins et al. J Pharm Biomed Anal 1989. 7: 155; Ekins and Chu, Clin Chem 1991. 37: 1955; Ekins and Chu, Trends in Biotechnology, 1999, 17, 217-218; MacBeath and Schreiber, Science 2000; 289(5485): p. 1760-1763.

5. Microarray Expression Profiles

This section describes an expression profile using the polynucleotides of the invention. The expression profile can be used to detect changes in the expression of genes implicated in disease.

The expression profile includes a plurality of detectable complexes. Each complex is formed by hybridization of one or more polynucleotides of the invention to one or more complementary target polynucleotides. At least one of the polynucleotides of the invention, and preferably a plurality thereof, is hybridized to a complementary target polynucleotide forming at least one, and preferably a plurality, of complexes. A complex is detected by incorporating at least one labeling moiety in the complex as described above. The expression profiles provide "snapshots" that can show unique expression patterns that are characteristic of the presence or absence of a disease or condition.

After performing hybridization experiments and interpreting detected signals from a microarray, particular probes can be identified and selected based on their expression patterns. Such probe sequences can be used to clone a full-length sequence for the gene or to produce a polypeptide.

The composition comprising a plurality of probes can be used as hybridizable elements in a microarray. Such a microarray can be employed in several applications including diagnostics, prognostics and treatment regimens, drug discovery and development, toxicological and carcinogenicity studies, forensics, pharmacogenomics, and the like.

6. Preferred microarrays of the invention

The invention provides for microarrays for measuring gene expression characteristic of a cancer of a tissue, comprising at least 4 polypeptide encoding polynucleotides or at least 4 antibodies which bind specifically to the polypeptides encoded by these polynucleotides, as listed in Table 2 and according to the following:

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A microarray for measuring gene expression characteristic of breast cancer comprising markers listed in Table 2 sheet 1; A microarray for measuring gene expression characteristic of uterine cancer comprising markers listed in Table 2 sheet 2; A microarray for measuring gene expression characteristic of kidney cancer comprising markers listed in Table 2 sheet 3; A microarray for measuring gene expression characteristic of bladder cancer comprising markers listed in Table 2 sheet 4: A microarray for measuring gene expression characteristic of lung cancer comprising markers listed in Table 2 sheet 5; A microarray for measuring gene expression characteristic of brain cancer comprising markers listed in Table 2 sheet 6; A microarray for measuring gene expression characteristic of colon cancer comprising markers listed in Table 2 sheet 7; A microarray for measuring gene expression characteristic of intestinal cancer comprising markers listed in Table 2 sheet 8; A microarray for measuring gene expression characteristic of stomach cancer comprising markers listed in Table 2 sheet 9; A microarray for measuring gene expression characteristic of liver cancer comprising markers listed in Table 2 sheet 10; A microarray for measuring gene expression characteristic of pancreatic cancer comprising markers listed in Table 2 sheet 11; and A microarray for measuring gene expression characteristic of spleen cancer comprising markers listed in Table 2 sheet 12.

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B. Immunodiagnosis and polypeptide detection

In certain embodiments, antibodies may be used in characterizing the tissue-specific tumor marker content of healthy and diseased tissues, through techniques such as ELISAs, immunohistochemical detection and Western blotting. This may provide a screen for the presence or absence of malignancy or as a predictor of future cancer. Once the tissue-specific tumor marker is identified, one of skill in the art may produce antibodies against that marker using techniques well known to those of skill in the art

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The use of such antibodies in an ELISA assay is contemplated. For example, such antibodies are immobilized onto a selected surface, preferably a surface exhibiting a protein affinity such as the wells of a polystyrene microtiter plate. After washing to remove incompletely adsorbed material, it is desirable to bind or coat the assay plate wells with a non-specific protein that is known to be antigenically

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neutral with regard to the test antisera such as bovine serum albumin (BSA), casein or solutions of powdered milk. This allows for blocking of non-specific adsorption sites on the immobilizing surface and thus reduces the background caused by non-specific binding of antigen onto the surface.

After binding of antibody to the well, coating with a non-reactive material to reduce background, and washing to remove unbound material, the immobilizing surface is contacted with the biological sample to be tested in a manner conducive to immune complex (antigen/antibody) formation.

Following formation of specific immunocomplexes between the test sample and the bound antibody, and subsequent washing, the occurrence and even amount of immunocomplex formation may be determined by subjecting same to a second antibody having specificity for the tumor marker that differs from the first antibody. Appropriate conditions preferably include diluting the sample with diluents such as BSA, bovine gamma globulin (BGG) and phosphate buffered saline (PBS)/Tween. These added agents also tend to assist in the reduction of nonspecific background. The layered antisera is then allowed to incubate for from about 2 to about 4 hr, at temperatures preferably on the order of about 25°C to about 27°C. Following incubation, the antisera-contacted surface is washed so as to remove non-immunocomplexed material. A preferred washing procedure includes washing with a solution such as PBS/Tween, or borate buffer.

For convenient detection purposes, the second antibody may preferably have an associated enzyme that will generate a color development upon incubating with an appropriate chromogenic substrate. Thus, for example, one will desire to contact and incubate the second antibody-bound surface with a urease or peroxidase-conjugated anti-human IgG for a period of time and under conditions which favor the development of immunocomplex formation (e.g., incubation for 2 hr at room temperature in a PBS-containing solution such as PBS/Tween).

After incubation with the second enzyme-tagged antibody, and subsequent to washing to remove unbound material, the amount of label is quantified by incubation with a chromogenic substrate such as urea and bromocresol purple or 2,2'-azino-di-(3-ethyl-benzthiazoline)-6-sulfonic acid (ABTS) and hydrogen peroxide, in the case of peroxidase as the enzyme label. Quantitation is then achieved by measuring the degree of color generation, e.g., using a visible spectrum spectrophotometer.

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The preceding format may be altered by first binding the sample to the assay plate. Then, primary antibody is incubated with the assay plate, followed by detecting of bound primary antibody using a labeled second antibody with specificity for the primary antibody.

Immunoblotting and immunohistochemical techniques using antibodies directed against the tumor markers also are contemplated by the invention. The antibodies may be used as high-affinity primary reagents for the identification of proteins immobilized onto a solid support matrix, such as nitrocellulose, nylon or combinations thereof. In conjunction with immunoprecipitation, followed by gel electrophoresis, these may be used as a single step reagent for use in detecting antigens against which secondary reagents used in the detection of the antigen cause an adverse background. Immunologically-based detection methods for use in conjunction with Western blotting include enzymatically-, radiolabel-, or fluorescently-tagged secondary antibodies against the toxin moiety are considered to be of particular use in this regard.

Flow cytometry methods also may be used in conjunction with the invention. Methods of performing flow cytometry are discussed in Zhang et al., J. Immunology, 157:3980-3987 (1996) and Pepper et al., Leuk. Res., 22(5):439-444 (1998). Generally, the cells, preferably blood cells, are permeabilized to allow the antibody to enter and exit the cell. If the gene in question encodes a cell surface protein, the step of permeabilization is not needed. After permeabilization, the cells are incubated with an antibody. In preferred embodiments, the antibody is a monoclonal antibody. It is more preferred that the monoclonal antibody be labeled with a fluorescent marker. If the antibody is not labeled with a fluorescent marker, a second antibody that is immunoreactive with the first antibody and contains a fluorescent marker. After sufficient washing to ensure that excess or non-bound antibodies are removed, the cells are ready for flow cytometry. If the marker is an enzyme, the reaction monitoring its specific enzymatic activity either in situ or in body fluids may be performed.

Determining the level of a polypeptide in a sample for the purposes of diagnosis may also be carried out in the form of enzymatic activity testing, when the polypeptide being examined offers such an option.

In addition, whole body image analysis following injection of labeled antibodies against cell surface marker proteins is a diagnostic possibility, as described

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above; the detected concentrations of such antibodies are indicative of the sites of tumor/ metastases growth as well as their number and the tumor size.

C. Carcinogenicity Testing

The tissue specific tumor marker genes identified using the methods of the invention can form the basis of a carcinogenicity test. Test agents are evaluated to see if their effects on human cells mimic the effects of loss of the tumor suppressor. Thus the agents are in essence being evaluated for the ability to induce a tumor suppressor mutation, or a mutation in another gene which is in the same regulatory pathway, or a non-genetic effect which mimics tumor suppressor loss. Test agents which are found to have at least some of the same constellation of effects as tumor suppressor loss on the regulation of the genes identified herein to be tumor suppressor-regulated, are identified as potential carcinogens. Any single gene identified can be used, as can at least 2, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100, 125, or 150 or more genes identified herein.

The invention also contemplates the use of the tissue-specific tumor markers identified herein in the screening of compounds for activity in either stimulating tumor suppressor activity, overcoming the lack of a tumor suppressor, or blocking the effect of a mutant tumor suppressor molecule. It is contemplated that any agent which decreases the expression of a tissue specific tumor marker that was upregulated upon tumor suppressor inactivation may serve as an anti-tumor agent. Screening assays for such agents are well known to those of skill in the art. U.S. Patent No. 6,262,242 is incorporated herein by reference as providing a general teaching of such screening assays and others relating to the diagnostic and therapeutic uses of tumor related genes.

II. Therapeutic Methods of Using Identified Markers

The genes identified by the invention herein as down-regulated by the loss of a tumor suppressor may prove effective against a given cancer when delivered therapeutically to the cancer cells. Antisense constructs of the genes identified herein as up-regulated as a result of loss of tumor suppressor can be delivered therapeutically to cancer cells. Other therapeutic possibilities include siRNA or small molecules or antibodies inhibiting the target protein function and/or expression. The goal of such therapy is to retard the growth rate of the cancer cells. Expression of the sense

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molecules and their translation products or expression of the antisense mRNA molecules has the effect of inhibiting the growth rate of cancer cells or inducing apoptosis. Sense nucleic acid molecules are preferably delivered in constructs wherein a promoter is operatively linked to the coding sequence at the 5'-end and initiates transcription of the coding sequence. Anti-sense constructs contain a promoter operatively linked to the coding sequence at the 3'-end such that upon initiation of transcription at the promoter an RNA molecule is transcribed which is the complementary strand from the native mRNA molecule of the gene.

Delivery of nucleic acid molecules can be accomplished by many means known in the art. Gene delivery vehicles are available for delivery of polynucleotides to cells, tissue, or to a mammal for expression. For example, a polynucleotide sequence of the invention can be administered either locally or systemically in an expression construct or vector. There are a number of ways in which expression vectors may be introduced into cells. In certain embodiments of the invention, the expression construct comprises a virus or engineered construct derived from a viral genome. In other embodiments, non-viral delivery is contemplated. The ability of certain viruses to enter cells via receptor-mediated endocytosis, to integrate into host cell genomes and express viral genes stably and efficiently have made them attractive candidates for the transfer of foreign genes into mammalian cells (Ridgeway, In: Vectors: A survey of molecular cloning vectors and their uses Rodriguez R L, Denhardt D T, eds. Stoneham: Butterworth, pp. 467-492, 1988; Nicolas et al., In: Vectors: A survey of molecular cloning vectors and their uses, Rodriguez & Denhardt (eds.), Stoneham: Butterworth, pp. 493-513, 1988; Baichwal et al., In: Gene Transfer, Kucherlapati ed., New York, Plenum Press, pp. 117-148, 1986; Temin, In: gene Transfer, Kucherlapati (ed.), New York: Plenum Press, pp. The viral vector can also be an astrovirus, coronavirus, 149-188, 1986). orthomyxovirus, parvovavirus, paramyxovirus, parvovirus, picornavirus, poxvirus, togavirus viral vector. See generally, Jolly, Cancer Gene Therapy 1:51-64 (1994); Kimura, Human Gene Therapy 5:845-852 (1994), Connelly, Human Gene Therapy 6:185-193 (1995), and Kaplitt, Nature Genetics 6:148-153 (1994).

Several non-viral methods for the transfer of expression constructs into cultured bacterial cells are contemplated by the invention. This section provides a discussion of methods and compositions of non-viral gene transfer. DNA constructs of the invention are generally delivered to a cell and, in certain situations, the nucleic

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acid or the protein to be transferred may be transferred using non-viral methods. The non-viral methods include calcium phosphate precipitation (Graham et al., Virology, 52:456-467, 1973; Chen et al., Mol. Cell. Biol., 7:2745-2752, 1987; Rippe et al., Mol. Cell Biol., 10:689-695, 1990) DEAE-dextran (Gopal, Mol. Cell Biol., 5:1188-1190, 1985), electroporation (Tur-Kaspa et al., Mol. Cell Biol., 6:716-718, 1986; Potter et al., Proc. Nat. Acad. Sci. USA, 81:7161-7165, 1984), direct microinjection (Harland and Weintraub, J. Cell Biol., 101:1094-1099, 1985.), DNA-loaded liposomes (Nicolau and Sene, Biochim. Biophys. Acta, 721:185-190, 1982; Fraley et al., Proc. Natl. Acad. Sci. (USA), 76:3348-3352, 1979; Felgner, Sci Am. 276(6):102-6, 1997; Felgner, Hum Gene Ther. 7(15):1791-3, 1996), cell sonication (Fechheimer et al., Proc. Natl. Acad. Sci. (USA), 84:8463-8467, 1987), gene bombardment using high velocity microprojectiles (Yang et al., Proc. Natl. Acad. Sci USA, 87:9568-9572, 1990), conjugation (Gavigan et al. In: Mycobacteria Protocols, Tanya Parish and Neil G. Stoker (eds). pp. 119-128 1998. Humana Press, Twtowa, NJ) and receptor-mediated transfection (Wu et al., J. Biol. Chem., 262:4429-4432, 1987; Wu et al., Biochemistry, 27:887-892, 1988; Wu et al., Adv. Drug Delivery Rev., 12:159-167, 1993).

The expression construct also may be entrapped in a liposome. Liposomes that can act as gene delivery vehicles are described in U.S. Pat. No. 5,422,120, PCT Patent Publication Nos. WO 95/13796, WO 94/23697, and WO 91/144445, and EP No. 524,968. The addition of DNA to cationic liposomes causes a topological transition from liposomes to optically birefringent liquid-crystalline condensed globules (Radler *et al.*, *Science*, 275(5301):810-4, 1997). These DNA-lipid complexes are potential non-viral vehicles for use in gene delivery.

Also contemplated in the invention are various commercial approaches involving "lipofection" technology. In certain embodiments of the invention, the liposome may be complexed with a hemagglutinating virus (HVJ). This has been shown to facilitate fusion with the cell membrane and to promote cell entry of liposome-encapsulated DNA (Kaneda *et al.*, *Science*, 243:375-378, 1989). In other embodiments, the liposome may be complexed or employed in conjunction with nuclear nonhistone chromosomal proteins (HMG-1) (Kato *et al.*, *J. Biol. Chem.*, 266:3361-3364, 1991).

Receptor-mediated gene targeting vehicles generally consist of two components: a cell receptor-specific ligand and a DNA-binding agent. Several ligands have been used for receptor-mediated gene transfer. The most extensively

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characterized ligands are asialoorosomucoid (ASOR) (Wu et al., 1987, supra) and transferrin (Wagner et al., Proc. Natl. Acad Sci. USA, 87(9):3410-3414, 1990). Recently, a synthetic neoglycoprotein, which recognizes the same receptor as ASOR, has been used as a gene delivery vehicle (Ferkol et al., FASEB J., 7:1081-1091, 1993; Perales et al., Proc. Natl. Acad. Sci. USA, 91:4086-4090, 1994) and epidermal growth factor (EGF) has also been used to deliver genes to squamous carcinoma cells (Myers, EPO 0273085).

Another embodiment of the invention for transferring a naked DNA expression construct into cells may involve particle bombardment. This method depends on the ability to accelerate DNA coated microprojectiles to a high velocity, allowing them to pierce cell membranes and enter cells without killing them (Klein et al., Nature, 327:70-73, 1987). Exemplary naked DNA introduction methods are described in PCT Patent Publication No. WO 90/11092 and U.S. Pat. No. 5,580,859. Several devices for accelerating small particles have been developed. One such device relies on a high-voltage discharge to generate an electrical current, which in turn provides the motive force (Yang et al., Proc. Natl. Acad. Sci. USA, 87:9568-9572, 1990). The microprojectiles used to date have consisted of biologically inert substances such as tungsten or gold beads.

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Example 1

Validation of the methods of the invention in LNCAP cells

The present Example demonstrates the methods of identifying tissue-specific tumor markers that are negatively regulated by a tumor suppressor. In the present Example, it was demonstrated for the first time that the expression of PSA is negatively regulated by p53.

Prostate cancer, the most frequently diagnosed malignancy in men in western countries (*Cancer*, 71(Suppl.): 880-886, 1993), is often characterized by elevated prostate-specific antigen (PSA) secretion that is broadly used as a blood-borne diagnostic marker of the disease. PSA is synthesized exclusively in prostate epithelia by normal, hyperplastic and malignant cells, and its levels are seen to rise several-fold above background in the blood as a result of benign prostatic

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hyperplasia. The levels of PSA in the serum of individuals at end-stage metastatic prostate carcinoma may be more than a hundred times higher than normal levels of the marker (Kim and Logothetis, *Urol. Clin. North Am.*, 26:281-290 1999; Abate-Shen and Shen, *Genes Dev.*, 14:2410-2434, 2000). Expression of the PSA gene was demonstrated to be directly regulated by binding of androgen receptor (AR) (Young *et al.*, *Cancer Res.*, 51:3748-3752 1991; Montgomery *et al.*, *Prostate*, 21:63-73, 1992; Trapman and Cleutjens, *Semin. Cancer Biol.*, 8:29-36 1997) to three androgen responsive elements (AREs) identified within the 5.8 kb PSA promoter (Schuur *et al.*, *Urology*, 162:2040-2045 1996; Cleutjens *et al.*, *Mol. Endocrinol.*, 11:148-161, 1997; Zhang *et al.*, *Biochem. Biophys. Res. Comm.*, 231:784-788, 1997; Zhang *et al.*, *Nucleic Acids Res.*, 25:3143-3150, 1997). However, detailed analyses of PSA promoter activity in androgen-dependent and androgen-independent prostate carcinoma cell lines indicated that the control of transcription of the PSA gene is not limited to androgen regulation (Yeung *et al.*, *J. Biol. Chem.*, 275:40846-40855 2000).

The present Example provides evidence showing the involvement of p53 tumor suppressor in regulation of PSA promoter. Micro-array hybridization and analyses were performed using LNCaP cells. This cell line originally isolated from lymph node metastases of prostate adenocarcinoma, retains wild type p53, androgen dependence and expression of a variety of prostate-specific markers, all known as properties of a relatively early stage of prostate cancer progression. Inactivation of p53 function by a dominant negative mutant in these cells imitates an important step in tumor progression and allows analysis of the genetic basis for altered tumor cell phenotype associated with p53 suppression.

A variant of LNCaP cells with inactivated p53, LN-56 (Rokhlin et al., Oncogene, 19:1959-1968, 2000), was generated by transduction of retroviral construct expressing the potent dominant negative p53 mutant, GSE56 (Ossovskaya et al., Proc. Natl. Acad. Sci. USA, 93:10309-10314, 1996). GSE56-mediated inactivation of p53 resulted in resistance to apoptosis and increased tumorigenicity of LN-56 cells (Rokhlin et al., Oncogene, 19:1959-1968, 2000), suggesting that p53 is at least partially functional in LNCaP cells. Moreover, both steady-state and inducible expression level of p53-responsive gene p21/waf1 were reduced in LN-56 cells.

PSA was among the genes that showed the most pronounced differential expression in LNCaP versus LN-56 cells. PSA was expressed four times higher in LN-56 than in LNCaP cells. To determine whether differences in mRNA

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expression correlated with PSA protein expression, the amount of secreted PSA in the medium from LNCaP and LN-56 cells was determined. This revealed that the latter cells produced 6-8 times more PSA as compared to LNCaP (Figure 1). These observations suggested that expression of PSA gene is likely to be under the negative regulatory control of p53 and that elevated expression of PSA in advanced prostate cancer may be indicative for p53 suppression.

To determine whether p53 directly affects transcription from the PSA promoter, a CAT assay was performed in the LNCaP cells transfected with the reporter constructs containing the CAT gene under the control of the proximal PSA promoter (nucleotides -407 to +11) linked to the PSA enhancer element (nucleotides -5322 to -3740). This construct was previously shown to imitate the endogenous PSA gene regulation (Zhang et al., Biochem. Biophys. Res. Comm., 231:784-788, 1997; Zhang et al., Nucleic Acids Res., 25:3143-3150, 1997). Since PSA transcription is also known to be androgen dependent, for these studies, LNCaP cells that retain androgen dependence were used. To increase the wild type p53 activity, different amounts of wild type p53 expression plasmid were cotransfected with the PSA-reporter vector. To inhibit endogenous p53 function, cotransfection with the GSE56-expressing plasmid was employed (Ossovskaya et al., Proc. Natl. Acad. Sci. USA, 93:10309-10314, 1996). Another reporter construct containing the CAT reporter gene under the control of p53-responsive promoter carrying the p53-binding site from p21/Waf1gene was used to monitor the p53 activity in transfected cells.

Introduction of different amounts of wild type p53-expressing plasmid into LNCaP cells resulted in dose-dependent changes of CAT activity driven from both p21- and PSA-derived promoter elements, though in opposite directions: while the p21 promoter construct was activated, expression of the PSA reporter was suppressed by p53. When GSE56 was co-transfected with either of the reporter constructs, an inverted picture was observed (Figure 2).

Sequence analysis does not reveal any canonical p53 binding sites within or in the vicinity of the PSA promoter region and in the first intron of the PSA gene. It is noteworthy that most of the known p53-repressed genes also do not possess such sites in their promoter regions and do not necessarily require p53.

Since it has previously been shown that negative regulation of transcription by p53 may involve p53-mediated recruitment of histone deacetylases (HDAC) (Murphy *et al.*, *Genes Dev.*, 13:2490 -2501 1999), the inventors set out to

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determine whether this would be also true for the PSA promoter. Following co-transfection of PSA-CAT reporter and wild type p53-expressing plasmids, the LNCaP cells were treated with the HDAC inhibitor trichostatin A (TSA) for 24 h and the lysates of transfected cells were tested for CAT activity. These experiments demonstrated that TSA completely abrogated the p53-mediated repression of PSA promoter driven transcriptional activity. At the same time, TSA had no effect on p53-mediated transactivation as determined in a similar experiment employing the p21 promoter-driven CAT reporter construct (Figure 3). Thus, the PSA gene can be added to a growing list of genes that are negatively regulated by p53 through HDAC-mediated transcriptional repression.

Use of a potent dominant negative p53 inhibitor, GSE56, allowed the determination of the p53 dependence of PSA expression. However, this mutant form does not naturally occur in human tumors. In order to more adequately imitate events naturally occurring in the course of tumor progression, the effect of four tumor-derived p53 mutants (135Val, 141Ala, 156Pro and 175His), two of which are frequent types of p53 mutants in prostate cancer (141Ala and 175His), on expression of PSA was determined. LNCaP cells were transduced with retroviruses expressing the above p53 mutant variants and the level of PSA was measured in the medium conditioned by each type of the transduced cell populations. In parallel, the potential suppressive effect of the introduced p53 mutants on the activity of endogenous p53 in LNCaP cells was estimated by monitoring the p53-dependent p21 induction in response to doxorubicin treatment (Rokhlin et al., Oncogene, 19:1959-1968, 2000). As seen in Figure 4, only one of the tested mutants, 175His, displayed a strong dominant negative activity against the wild type p53 reflected by the lack of p21 induction by DNA damage. Val135 mutant showed marginal p53 suppression, while the two remaining mutants did not interfere with p53-mediated p21 induction at all. Remarkably, this pattern of anti-p53 activity was exactly mirrored in the pattern of PSA expression: compared to control, 175His expressing cells produced 9-11 times more PSA, whereas in 135Val cells its level was slightly increased and 141Ala, 156Pro.

The list of genes whose expression was changed following wild type p53 suppression in LNCaP cells is attached as Table 1.

In conclusion, this Example demonstrate that the transcription of PSA gene in the prostate carcinoma cell line, LNCaP, is under strict negative control of

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p53 and its expression can be greatly activated by suppression of wild type p53 activity. Since LNCaP is considered most adequate and conventional among available *in vivo* models of hormone-dependent prostate cancer, these results likely reflect regulation of PSA in naturally occurring tumors. Thus, one of the most useful diagnostic tumor markers is, in fact, a tissue specific indicator of p53 inactivation in prostate cells. Being dependent on p53 inactivation, elevated production of PSA may therefore be indicative for the ongoing selection of p53-deficient cell variants with the broken control of apoptosis, angiogenesis, and genomic stability, all normally regulated by wild type p53. In fact, the loss of functional p53 by LNCaP cells is accompanied not only by elevated PSA secretion but also by acquisition of high tumorigenicity and resistance to TNF (Rokhlin *et al.*, *Oncogene*, 19:1959-1968, 2000).

For further detail concerning the above Example, see the inventors' publication: Gurova et al: Expression of prostate specific antigen (PSA) is negatively regulated by p53. *Oncogene* 2002, 21: 153-157.

Example 2

Validation of the methods of the invention in sets of p53-/- and p53 wild-type tissues and identification of new cancer markers

The most desirable characteristics of an ideal tumor marker involve tissue/organ specificity of expression and association with definite type of tumor and/or stage of tumor progression. Alternatively, tumor markers may be ubiquitously highly expressed in numerous tumors displaying low expression or lack of expression in normal tissues. Prospective markers can be oncogenes themselves, and thus be directly involved in malignant transformation (i.e., BCR-ABL in Ph'-positive CML and ALL) (Daley et al., Science 1990 Feb 16;247(4944):824-30.) On the other hand, the marker genes may be not the active players in carcinogenesis, their overexpression being a consequence of transformation-associated changes in gene regulation. Genes from the first group may be targets for functional inhibition via direct targeting by drugs, whereas the genes(proteins) from the second group, if localized to the plasma membrane, may be used for targeting of tumor cells via specific antibodies-mediated strategies. Changes in the expression of these genes may also be used as a readout for the establishment of bioassay for the purpose of screening for anti-cancer drugs, e.g. targeted at reactivation of normal tumor suppressor gene function. Marker proteins

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from both groups may serve also as early diagnostic or progressive tumor markers if found in body fluids (i.e., like PSA in the cancer of prostate). Alternatively they may serve as differential diagnosis markers during morphological examination of tumor samples or tissue biopsies.

The invention provides a systematic approach for the search of cancer marker genes. This approach is based on the idea that many such genes may be transcriptionally activated in tissues following the loss of the most common tumor suppressor genes like e.g., p53, PTEN, RB, and p16/p19 and that this regulation will be conserved in normal and tumor cells from the same origin. Technically, the gene discovery may be performed by comparison of gene expression profiles in the fitted tissue pairs derived from normal and genetically modified mice, like i.e. p53 -/- mice, p16/p19-/- mice, tissues with targeted expression of SV40 large T antigen that simultaneously inactivates both RB and p53 function (TRAMP mice, expressing LT-Ag in prostate). There are some literature indications, as well as examples that support the feasibility of such an approach. For example, it was demonstrated wild-type p53 can suppress the expression of two neoangiogenesis and progression-related genes known to be highly expressed in tumors, COX2 (Subbaramaiah et al., J Biol Chem 1999 Apr 16;274(16):10911-5) and VEGF (Zhang et al., Cancer Res 2000 Jul 1;60(13):3655-61.) Both genes are currently regarded as targets for anti-cancer therapeutics. However, the connection of COX2 and VEGF to p53 was found long after they were first discovered and their function and tumor association were well established.

In the present studies presented in Example 1 above, the inventors created an isogenic pair of LNCaP prostate tumor cell lines differing in their p53 status and applied cDNA microarray analysis to look for differentially expressed genes. It was discovered that the baseline expression of several known tumor markers is significantly elevated in LNCaP cells that lack functional p53 protein compared to the same cells that express wt p53. These genes include e.g., COX2, tumor-specific heparin-binding growth factor midkine (possesses angiogenic and anti-apoptotic properties) (Ikematsu *et al.*, *Br J Cancer* 2000 Sep;83(6):701-6), tumor tissue associated hyaluronan receptor CD44 (Sneath et al., *Mol Pathol.* 1998 Aug;51(4):191-200) and PSA (prostate specific antigen).

COX2 inhibitors are currently in clinical trials against prostate cancer. Midkine was immunohistochemically shown to be expressed specimens 86.3% of

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prostate cancer specimen examined, with metastatic lesions generally showing higher expression than the corresponding primaries; normal prostate tissues were negative or showed only weak staining. Midkine was also detected in 12 of 15 latent cancers (80%) and in 12 of 16 cases of PIN (75%) (Konishi et al., *Oncology* 1999 Oct;57(3):253-7). PSA is the major currently used prostate cancer diagnostic marker. In Example 1 it is shown that its promoter is directly suppressed by wt p53, thus PSA up-regulation in prostate cancer may be indicative for the wt p53 loss. The list of genes which expression was changed following wt p53 suppression in LNCaP cells is attached in the accompanying Excel file (Table 1). The inventors concluded that general proof of concept is achieved and embarked upon a large-scale experiment involving microarray-based comparison of gene-expression profiles in the tissue pairs derived from normal and p53-/- mice.

Poly A RNA was extracted from spleen, pancreas, liver, stomach, intestine, colon, lung, brain, bladder, kidney, placenta/uterus and mammary glands of normal and p53-deficient mice and used for fluorescently-labeled probes for microarray hybridizations. All tissue-specific probes were labeled with Cy5 fluorescent marker, while the common control probe (an equal proportion mixture of all the RNAs) was labeled with Cy3. The common control probe was used in order to assess also the tissue-specificty of gene expression. All probes were hybridized to MouseGEM (Incyte). Upon quality control and pair-wise balancing of Cy5 and Cy3 signals, the differential (against common control) gene expression levels were normalized between p53-/- tissues and their corresponding normal counterparts. As a result the inventors obtained a table of genes containing their differential expression levels in p53-/- tissues compared to the corresponding normal tissues; the genes were sorted according to their expression levels in one particular tissue from maximally upregulated genes to maximally down-regulated ones (Table 2). Genes showing absolute differential expression levels less than 1.9 were excluded from these tables. Thus, these tables contain the lists of genes with maximal differential tissue-specific expression in p53-deficient mice. It must be noted, that the majority of identified genes has changed their expression in a tissue-specific manner, though some of them like, e.g., choline kinase (known to be up-regulated and activated in numerous cancer types) was up-regulated in p53-/- pancreas, stomach, intestine, lung, bladder, uterus, and mammary gland. Another interesting observation is that there was almost no

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overlap between the list of genes that were up- or down-regulated in different p53-/-tissues.

Out of the approximately 10,000 genes printed on the microarray, approximately 445 genes that were found to be up-regulated in p53-/- tissues were studied in further detail, as they had the largest potential of serving as tumor markers (drug targets and diagnostic markers). These genes appear in the Excel file, Table 3. This table combines the p53-dependent differential expression data with the tissue specificity of gene expression data. The actual differential expression of genes in regard to common control is also presented. As discussed above, the markers are based on genes that are: either

- 1. up-regulated in a certain p53-/- tissue and are normally expressed predominantly in this tissue; or
- 2. normally expressed at low levels in one or several tissues but are up-regulated in one or numerous p53-/- tissues.

As evident from Table 3, genes belonging to both groups were identified. For example, Mest-linked imprinted transcript, anonymous brain protein, and potassium voltage-gated channel (subfamily Q, member2) are specifically expressed in brain and are up-regulated in p53-/- brain compared to the normal one. Another example: expression of liver-specific fatty acid transporter, betaine-homocystein methyltransferase and of several unknown genes (ESTs) is significantly increased in p53-/- hepatic tissue. On the other hand, genes such as choline kinase that is usually expressed at low levels is significantly enhanced in numerous p53-/- tissues (see above). A similar behavior is also observed i.e. for EGF (enhanced in p53-/- bladder); zinc finger protein 101 (enhanced in p53-/- liver). Numerous unknown genes (ESTs) also fall in this the most promising category.

The approximately 445 genes identified as up-regulated in p53-/- mice were further prioritized for the purpose of serving as diagnostic markers; the highly preferred diagnostic markers are presented in Table 5 (general cancer markers) and Table 6 (tissue-specific cancer markers). Thus, of the approximately 10,000 genes printed on the array, the inventors were able to select through the methods of the invention a total of 338 genes ideally suited for several diagnostic and prognostic uses in various cancers, as described herein.

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Table 4 sheet 1 provides a list of 32 genes/ polypeptides identified according to the methods of the present example as disclosed herein that are known in the art to be markers for certain cancers, thus validating the effectiveness of the methods of the invention. This table also includes the PubMed indexing numbers of publications that disclose the connection of these genes/ polypeptides to cancer.

In summary, the inventors provide a list of genes characterized in regard to tissue-specificity of their normal expression and induction/reduction in various p53-deficient tissues. A similar expression pattern should be preserved in tumor cells originating from the same tissue. Thus, the identified genes may serve as tumor markers.

Example 3

Validation data for additional tumor suppressor genes

The methods of the invention, as validated in example 2, are not limited only to the use of the tumor suppressor p53, as any other tumor suppressor gene with confirmed involvement in a specific type of cancer may be involved in negative regulation of tissue specific genes by direct (i.e., transcription factors) or indirect (i.e., signaling pathway members) pathways.

The inventors therefore proceeded to test these methods on p53 knockout mice, TRAMP mice and PTEN hemisigous mice (the complete knockout is non-viable). TRAMP transgenic mice express large T-antigen of SV40 under the control of prostate-specific probasin promoter (Jackson labs), and have both tumor suppressor genes p53 and Rb inactivated. PTEN hemisigous mice have only one allele of the tumor suppressor gene PTEN. The experiments were carried out on prostate cells. For each hybridization, RNA was isolated from prostates of 6-8 males of different age in dependence of genotype prior to appearance of initial signs of hyperplaysia of prostate according to published data (p53KO, TRAMP and corresponding control C57BL6 mice - 9-10 weeks old, PTEN and corresponding control FVB mice - 6 weeks old). Total RNA was isolated from each prostate separately from 6-8 animals of each genotype. In total two probes for each genotype were prepared and hybridized with a set of three mouse Affymetrix arrays which cover the majority of known mouse transcripts. Genes with reproducible 2 fold overexpression in tumor suppressor gene deficient prostates as compared with wild

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type organs (confirmed specific hybridization) in both two repetitive hybridizations were picked for identification of human homologs.

Remarkably, among 161 genes picked for further analysis, more than 10 were found to be either known or candidate cancer markers although their p53 or Rb dependence had not been previously determined (see Table 4 sheet 2). A significant proportion of other genes that came out of these experiments are known as genes with melanoma or glioma-specific expression that is consistent with frequent acquisition of traces of neuroendocrinal differentiation by prostate cancer cells. Additional genes/ polypeptides previously linked to cancer and identified according to the method described in this Example include: KIAA430, limkainb1 (NP_596912), that associates with the LIM-kinase 2, which may be critical for metastasis (PMID: 11208874); Glutamate-cystein ligase (modifier subunit), the rate-limiting enzyme in glutathion synthesis, that is overexpressed in numerous tumor types (PMID: 11774239, 11753966); PCNA (proliferating cells nuclear antigen), an auxiliary protein of DNA polymerase delta that is involved in the control of eukaryotic DNA replication, and overexpressed in numerous cancer types (e.g., PMID: 12145573, 12046056, PMID: 11750711, 11606074); Mcmd5, a DNA replication licensing factor under transcriptional control of E2F (PMID: 10327050), (abolishment of Rb function by TRAMP), which is a known marker for cancer (PMID: 2122098, 11839717, 10551502, 9843993); Transducin-like enhancer protein 2 (TLE2), a Nuclear effector molecule and neural/neuroectodermal associated gene overexpressed in synovial sarcoma (PMID: 12414507); Inhibitor of DNA binding 1 (ID1), a negative regulator of helix-loop-helix DNA binding proteins with the following functions: required to maintain the timing of neuronal differentiation in the embryo and invasiveness of the vasculature (hence, neurogenesis and vasculogenesis) (PMID: 10537105), inhibits transcription of trombospondin-1, thus promoting angiogenesis (PMID: 12498716), helps to keep neuroblastoma cells in an undifferentiated state (PMID: 11756408), directly inhibits expression of p16 via repression of Ets and E-protein-mediated transactivation (PMID: 11427735), trichostatin A treatment of ovarian cancer cells causes decrease of Rb phosphorylation and reduction of ID1 expression (thus the observed expression pattern in TRAMP mice is concomitant with Rb inactivation by T-Ag) (PMID: 12479699). This gene has several known associations to cancer: associated with grade and invasiveness of endometrial carcinoma (PMID: 11275368), upregulated in early melanomas (if not, p16 is mutated) (PMID: 11507043),

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expressed in astrocytes and endothelial cells within astrocytomas positively correlating with stage and grade (PMID: 12007145).

These preliminary results clearly support the main concept of the instant invention, and demonstrate that cancer markers can be frequently found among the genes that are normally under the negative control of tumor suppressors.

Table 4 sheet 2 provides a list of 12 genes/ polypeptides identified according to the methods of the present Example and of Example 2 as disclosed herein that are known in the art to be markers for certain cancers, thus validating the effectiveness of the methods of the invention. This table also includes the PubMed indexing numbers of publications that disclose the connection of these genes to cancer.

While the invention has been described in terms of specific embodiments, it is understood that variations and modifications will occur to those skilled in the art. Accordingly, only those limitations appearing in the appended claims should be placed upon the invention. The entire disclosure of all publications and patents cited herein are hereby incorporated by reference.

gene Human_clor gene sapiens] {In gene Fc_fragmen prostagland endoperoxic gene yte_PD:313 gene Human_GA gene kallikrein_3,	16-23586_mRNA_sequence_{Incyte_PD:530629}} 16-23586_mRNA_sequence_{Incyte_PD:530629}} 16-23586_mRNA_sequence_{Incyte_PD:530629}} 16-235928} 17-248-2-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-	530629 855928 1560730	8 9 9 9 9	
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	in 3, (prostate_specific_antigen) {Incyte_PD:1655492} or_of_G-protein_signalling_2, 24kD_{Incyte_PD:1218114}	824443	4.8	glutamate receptor (see glioma's 4.8 paper and my text about prostate)
	G-protein_signalling	1655492	4.6	4.6 PSA
		1218114	4.5	
				novel, sequence is not complete, contains Glutamine amidotransferases class-II signature and Beach domain (PFAM - did not
gene Homo	Homo_sapiens_mRNA_for_KIAA0540_protein,_partial_cds_{Incyte_PD:2966126}	2966126	4.4	4.4 find functional description)
	diaphorase_(NADH/NADPH)_(cytochrome_b-5_reductase)_{Incyte_PD:2637222}	2637222	4	
	Human_tumor_necrosis_factor-inducible_(TSG-6) mRNA fragment, adhesion receptor CD44 putative_CDS_{Incyte_PD:3142364} 3142364	142364	4	4 hyaluronan receptor
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	ESTs {Incyte PD:2740665}	2740665	3.5	
	butyrylcholinesterase_{Incyte_PD:1599272}	1599272	3.5	
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	[H.sapiens]_{Incyte_PD:2311432}	2311432	200	
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gene ESTs_{	ESTs_{Incyte_PD:3519565}	3519565	3.5	
		1537925	3.0	
	bactericidal/permeability-increasing_protein_{Incyte_PD:406016}	406016		
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		944140	C.	
	KIAA0025 gene product {Incyte PD:2054420}	2054420	3.1	

Table 1 Page

	IESTs. Moderately similar to IIII ALU SUBFAMILY SP WARNING ENTRY IIII			
gene		1574536		
gene	ESTs_{Incyte_PD:966948}	966948	3	
	ESTs, Weakly_similar_to_(defline_not_available_4589652)_[H.sapiens]_{Incyte_PD:			
gene		3749894	80	
gene	ESTs_{Incyte_PD:2045819}	2045819	en.	
eue 3	ESTs_{Incyte_PD:979945}	979945	c's	
gene	ESTs_{Incyte_PD:2149058}	2149058		
gene	prostaglandin_E_receptor_4_(subtype_EP4)_{Incyte_PD:1631793}	1631793		
gene	ESTs_{Incyte_PD;3252857}	3252857	8	
	ESTs, Moderately_similar_to_!!!!_ALU_SUBFAMILY_SX_WARNING_ENTRY_!!![
gene		2447969		
dene	ESTs {Incyte PD:1397926}	1397926	2.9	
dene	frizzled (Drosophila) homolog 5 (Incyte PD:3129290)	3129290	2.9	
gene	ان	1622542	2.8	
gene	3. UTR (Inc	1403294	2.8	
депе	N-acetylgalactosaminidase,_alpha{Incyte_PD:1664863}	1664863	2.8	
gene		2716511	2.8	
gene		2556708		
gene	KIAA0575_gene_product_{Incyte_PD:3094261}	3094261		
gene	ESTs_{Incyte_PD:1824332}	1824332	7.7	
	Homo_sapiens_mRNA,_chromosome_1_specific_transcript_KIAA0495_{Incyte_PD:1	1		
gene	963554}	1963554	7.7	
gene	ESTs_{Incyte_PD:2287483}	2287483	7.1	
gene	ESTs_{Incyte_PD:3144018}	3144018	7	
gene	ESTs_{Incyte_PD:2466668}	2466668	2.0	
gene	ESTs_{Incyte_PD:2968970}	2968970		
gene		2748370	GO C	
	ESTS, Weakly_similar_to_!!!!_ALU_SUBFAMILY_SC_WARNING_ENTRY_!!!!_[H.sa			
gene		2243954		
	transcription_factor_3_(E2A_immunoglobulin_enhancer_binding_factors_E12/E47)_{			
gene	ncyte_PD:640174}	640174		
gene	Not_mapped_{Incyte_PD:3463469}	3463469	9	
gene	ESTs_{Incyte_PD:201053}	201053	9	
депе	ESTs_{Incyte_PD:865723}	865723	ro C	
gene	adreneralc. beta-2-, receptor, surface {Incyte PD:3200341}	3200341	50	

Table 1 Page,

	solute_carrier_family_12_(sodium/chloride_transporters),_member_3_{Incyte_PD:35_			
gene	35415}	3535415		
gene		4061967		
	ESTs,_Highly_similar_to_!!!!_ALU_SUBFAMILY_SP_WARNING_ENTRY_!!!!_[H.sap			
gene		966692		
gene	Not_mapped_{Incyte_PD:2542313}	2542313	3	
gene	ESTs_{Incyte_PD:1911371}	1911371		
	ESTS, Moderately_similar_to_!!!_ALU_SUBFAMILY_J_WARNING_ENTRY_!!!_[H.			
gene	sapiens] {Incyte_PD:2049587}	2049587		
	ESTs,_Moderately_similar_to_protein_serine/threonine_kinase_IH.sapiens]_{Incyte_			
gene	PD:2789918}	2789918		The second secon
	ataxia_telangiectasia_mutated_(includes_complementation_groups_A,_C_and_D)_{I			
gene		394665		
gene	rte_PD:2477854}	2477854		
gene		2312442		
gene	WD_repeat_domain_2_{Incyte_PD:2210264}	2210264		
dene	A, complete cds {Incyte_PD:2796468}	2796468		
000	2820985	2820985		important for growth of some carcinoid tumors
0000		1479255	70	
9000	FOTE (Inc. the DD: 2280001)	2289901		
3010	ECT (Inc. to D):18027381	1602726		
90.00	Drimase polymentide 1 (49kD) {Incyte PD:105121}	105121		
gene	Ш	2230152		
			cytokine	cytokine expressed by numerous
			types of	types of tumors. Our candidate in
gene	midkine_(neurite_growth-promoting_factor_2)_{Incyte_PD:940845}	940845	JOL C	
gene		2149237		
gene	ESTs_{Incyte_PD:1817969}	1817969	7.50	
gene	ESTs {Incyte_PD:1753445}	1753445		
gene		2882960		
gene		213516		
gene		2359527		
gene	ESTs, Highly_similar_to_(defline_not_available_4589636)_[H.sapiens]_{Incyte_PD:2499488}	2499488		
	The second secon			

Table 1 Page

gene	FSTs {Incyte PD:2662127}	2662127	
gene		2544622	2.2
gene	Human_clone_23908_mRNA_sequence_{Incyte_PD:2251851}	2251851	2.2
gene	phorbolin (similar to apolipoprotein B mRNA editing protein) {Incyte PDt212573} 212573	212573	2.2
gene	platelet-activating_factor_receptor_{Incyte_PD:2966535}	2966535	
gene	D:2448338}	2448338	2.2
gene	ESTs_{Incyte_PD:2136337}	2136337	
gene	(Incyte	4003220	
gene		2667106	
9000	ESTS, Weakly similar to !!!! ALU SUBFAMILY J WARNING ENTRY !!!! [H.sapi	465591	60
0 000	ESTs //nev/te DD:0370541	2372541	
dene	{lncyte PD;14588}	14588	22
gene	(65)	2598965	
	!!_ALU_SUBFAMILY_SB_WARNING_ENTRY_!!!_[H.sa		
gene		2075469	
gene	ESTs_{Incyte_PD:2296027}	2296027	
gene	Not_mapped_{Incyte_PD:2896792}	2896792	2.2
	ESTsHighly_similar_to_putative_Rab5-interacting_protein_{clone_L1-		
gene	[57] [H.sapiens] {Incyte_PD:1984130}	1984130	
gene		1366043	
	ESTS,_Weakly_similar_to_!!!!_ALU_SUBFAMILY_J_WARNING_ENTRY_!!!!_[H.sapi	0.00	
gene	ens_{Incyte_PD:2133481}	2133481	
gene	ESTs_{Incyte_PD:1888670}	1888670	
gene	ESTs_{Incyte_PD:1349433}	1349433	
gene	putative_p150_[H.sapiens]_{Incyte_PD:2936403}	2936403	
gene		414891	
gene	ESTs_{Incyte_PD:2060416}	2060416	
gene	ESTs_{Incyte_PD:3104921}	3104921	
gene	ESTs_{Incyte_PD:57997}	57997	
gene	Not_mapped_{(Incyte_PD:1464613)	1464613	
gene	ESTs_{Incyte_PD:1641775}	1641775	
gene	Human_clone_23933_mRNA_sequence_{Incyte_PD:2286572}	2286572	
gene	amiloride_binding_protein_1_(amine_oxidase_(copper- containing))_{Incyte_PD:3676190}	3676190	

Table 1 Page

	Human quanine nucleotide exchange factor mRNA, complete cds (Incyte PD:19)			
dene	1	1962190	2.1	
gene	ESTs {Incyte_PD:2279230}	2279230	2.1	
gene		3719865	2.1	
gene	tigen_of_melanoma_{Incyte_PD:2007554}	2007554		之1 melanoma antigen
gene		1302785	2.7	
	me_5q21-			
gene		2501484		
gene	pancreatic_lipase-related_protein_1_{Incyte_PD:2084515}	2084515	2	
gene		2691093	2	
gene	ESTS, Highly similar to PP2C [H.sapiens] (Incyte PD:2182353)	2182353	2	
dene	ant, pulmonary-associated protein B {Incyte PD:1988674}	1988674	2	
	ENTRY_!!!!_[H.			
dene		520342	7	
	IIII_ALU_SUBFAMILY_SQ_WARNING_ENTRY_III!_[
dene		1849453	2	
	e not available 4587207) [H.sapiens] {Incyte_PD:			
dene		2296344	2	
dene		2317034		
,	III_ALU_SUBFAMILY_SB_WARNING_ENTRY_IIII_[H.sa			
gene		1638184	2	
gene		1428856		
gene		3508727	2	
	jiii_ALU_SUBFAMILY_J_WARNING_ENTRY_!!!!_[H.sapi			
gene		1431969	7	
gene	393855}	1393855		
gene	1	2045755		
gene	ESTs_{Incyte_PD:1686727}	1686727	8	
gene	ESTs {Incyte_PD:2344817}	2344817		
dene	KIAA0335 gene_product_{Incyte_PD:2308348}	2308348		
gene		1417114		
gene	ESTs {Incyte PD:2459069}	2459069		
dene	yte_PD:1300530}	1300530		
gene	{Incyte_PD:2468523}	2468523		
000	nucleolar_autoantigen_(55kD)_similar_to_rat_synaptonemal_complex_protein_{Incyt}	81490		
90110				

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dene	kinesin family member 5C {Incyte PD:1596268}	1596268	
gene	ESTs, Highly_similar_to_CDV-1R_protein_[M.musculus]_{Incyte_PD:1494531}	1494531	
gene		2618859	
gene	ESTs {Incyte_PD:2286816}	2286816	
	activating_transcription_factor_4_(tax-		
gene	responsive_enhancer_element_B67)_{Incyte_PD:2916261}	2916261	
gene	ESTs_{Incyte_PD:1472206}	1472206	
gene	desmocollin_2_{Incyte_PD:496003}	496003	
gene	Not_mapped_{Incyte_PD:341263}	341263	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
gene	ESTs {Incyte PD:1440279}	1440279	10 10 10 10 10 10 10 10 10 10 10 10 10 1
gene	differentiated_Embryo_Chondrocyte_expressed_gene_1_{Incyte_PD:1732479}	1732479	2
gene	lectin, galactoside-binding, soluble, 3 (galectin 3) {Incyte_PD:2921194}	2921194	7
gene	calbindin_1, (28kD)_{Incyte_PD:629769}	629769	2-11-11-11
dene	serine protease inhibitor, Kazal type_1_{Incyte_PD:2373608}	2373608	2
dene		3279439	2
dene	associated, coiled-coil cont	1351711	1. Jack (1978) 1. Jac
dene	plectin 1, intermediate filament binding protein, 500kD_{Incyte_PD:1907232}	1907232	· 7 * 141 = 1
dene	ESTs, Weakly similar to DAP-1 beta [H.sapiens] {Incyte_PD:2902846}	2902846	-2
dene	7330}	1597330	
	ubiquitin-		
_	activating_enzyme_E1_(A1S9T_and_BN75_temperature_sensitivity_complementing)		
gene	{Incyte PD:1674422}	1674422	2.10.20.00.2.2
gene	879}	2912879	7
gene	Human_mRNA_for_unknown_product_partial_cds_{Incyte_PD:1402715}	1402715	7
	:ETYLTRANSFERASE_[H.sapiens]_{Incyte_P	0000	
gene		03030	7, 4, 7, 4, 7, 4, 7, 4, 7, 4, 7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
gene	- 1	1912284	7-
gene	A,_complete_cds_{Incyte_PD:3374419}	33/4419	7-
gene		565269	7.
	hect_(homologous_to_the_E6-		
	AP_(UBE3A)_carboxyl_terminus)_domain_and_RCC1_(CHC1)-	1	
gene	like_domain_(RLD)_1_{Incyte_PD:4292515}	4292515	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
dene	phosphorylase,_glycogen;_muscle_(McArdle_syndrome,_glycogen_storage_dlsease type V) {Incyte PD:2635943}	2635943	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)
dene	.e_PD:3520448}	3520448	25.50-2.1
,			

Table 1 Page 6

	Homo sapiens SOX22 protein (SOX22) mRNA, complete cds {Incyte PD:28248		Service and the service and th
gene	(20)	2824870	21
	Homo_sapiens_beta_III_spectrin_(SPTBN2)_mRNA,_partial_cds_{Incyte_PD:34322		
gene	[08]	3432208	2.1
dene	ESTs, Weakly_similar_to_(defline_not_avallable_4929591)_[H.saplens]_{Inteyte_PD: 3596244}	3596244	7.7% A.
gene	ubiquitin specific protease 5 (isopeptidase T) {Incyte_PD:2493777}	2493777	22.1
gene	D:3971091}	3971091	\$ 20 year - 22.1
	laminin, alpha 3 (nicein (150kD), kalinin (165kD), BM600 (150kD), epilegrin) {In		
gene		1818527	
gene	_KIAA0185_gene,_partial_cds_{Incyte_PD:2503208}	2503208	1.5° 1.5° 1.5° 1.5° 1.5° 1.5° 1.5° 1.5°
gene	desmoplakin_(DPI,_DPII)_{Incyte_PD:179929}	179929	2.1
gene	nhibitor_1A_(p21,_Cip1)_{Incyte_PD:1804548}	1804548	-2.1 p21
gene	dation_syndrome_X-linked_{Incyte_PD:4106629}	4106629	-2.2
aueb	nositol-4-phosphate_5-kinase,_type_II,_beta_{Incyte_PD:1315666}	1315666	
gene	n_1,_yeast)_homolog_A_(centractin_alpha)_{Incyte_PD:1841462}	1841462	-2.2
gene	keratin_7_{Incyte_PD:1649959}	1649959	-2.2
	Homo_sapiens_mRNA_for_6-phosphofructo-2-kinase/fructose-2,_6-		
gene	bisphosphatase,_complete_cds_{Incyte_PD:1302221}	1302221	-2.2
gene		8552	-2.2
gene		3744592	2.2.3
gene	{Incyte_PD:1624024}	1624024	2. 2. 2.3
gene	ESTs_{Incyte_PD:2129939}	2129939	
	or_(avian_erythroblastic_leukemia_viral_(v-erb-		- 440 1
gene		179598	2.2.3
gene	_factor_1_receptor_{Incyte_PD:2597262}	2597262	. 30 5 2 - 2.3
gene		1723971	2.3
gene	:1610993}	1610993	2.5.3.8.2.3
gene	:2508261}	2508261	2.2.3
gene	.ed_{Incyte_PD:2055569}	2055569	5 - 2 - 2.3
gene	-	3971258	∵
000	Homo_sapiens_transcriptional_enhancer_factor_(TEF1)_DNA,_complete_CDS_{Incy	2057175	7
n n	1307 17 J	2010112	**************************************
gene	T	3010113	1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
Эшеб	Thurian cleavage signal i protein marva, complete cus (incyte ru.zus+uss)	200400	17.

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gene	ESTs { ncyte PD:187276}	187276	-2.4	
gene	hypothetical_protein_of_unknown_function_{Incyte_PD:1402462}	1402462	-2.5	
gene	Human_mRNA_for_KIAA0066_gene,_partial_cds_{Incyte_PD:3042637}	3042637	-2.5	
gene	.e_PD:1655995}	1655995	-2.5 ir	-2.5 important for NE differentiation
gene		2285502	-2.5	
gene	1336738}	1336738	-2.5	
gene	ESTs_{Incyte_PD:1382947}	1382947	-2.5	
gene	ESTs_{Incyte_PD:1967531}	1967531	-2.5	
gene	ESTs_{Incyte_PD:2369022}	2369022	-2.5	
				antagonizes NGF stimulation of trk. Trk's are targets in prostate cancer
gene	cannabinoid_receptor_1_(brain)_{Incyte_PD:112853}	112853	-2.6 tr	-2.6 traetemnt, tumors produce NGF
gene	keratin, hair, basic, 1 {Incyte_PD:1919158}	1919158	-2.6	
	S100_calcium-	-		
	binding_protein_A4_(calcium_protein,_calvasculin,_metastasin,_murine_placental_h			4.
gene	omolog)_{Incyte_PD:1222317}	1222317	-2.6	
gene	fibroblast_activation_protein,_alpha_{Incyte_PD:2483605}	2483605	-2.6	
gene	Homo_sapiens_KIAA0421_mRNA,_partial_cds_{Incyte_PD:4253663}	4253663	-2.6	
gene	Not_mapped_{Incyte_PD:2204871}	2204871	-2.7	
gene	lamin_B2_{Incyte_PD:2414632}	2414632	-2.7	
gene	KIAA0138_gene_product_{Incyte_PD:1731569}	1731569	-2.7	
gene	H.sapiens_mRNA_for_protein-tyrosine-phosphatase_D1_{Incyte_PD:2605804}	2605804	-2.7	
gene	axonal_transport_of_synaptic_vesicles_{Incyte_PD:3856893}	3856893	-2.7	
	Homo_sapiens_mRNA;_cDNA_DKFZp586F0219_(from_clone_DKFZp586F0219)_{I			
gene	ncyte_PD:220566}	220566	-2.8	
gene	nuclear_factor_I/C_(CCAAT-binding_transcription_factor)_{Incyte_PD:1670221}	1670221	-2.8	
gene	ESTs_{Incyte_PD:1540157}	1540157	-2.8	
gene	5T4_oncofetal_trophoblast_glycoprotein_{Incyte_PD:1283532}	1283532	-2.8	
	-9-asonio			
	phosphatase,_catalytic_(glycogen_storage_disease_type_l,_von_dierke_disease)_{	200200	C C	
gene		428/32/	2.7-	
	interleukin_6_signal_transducer_(gp130,_oncostatin_M_receptor)_{Incyte_PD:21723	1470001		A COCCAGO CARONE
gene	54}	1,2004	2.09	Z-olgiowill supplessor
gene	hydroxyprostaglandin_dehydrogenase_15-(NAD)_{Incyte_PD:15/8941}	15/8941	Q.Z-	
dene	v-myb avian myeloblastosis viral oncogene homolog-like 2 {Incyte_PD:494905}	494905	-2.9	
)	1			

	Homo_sapiens_Nedd-4-like_ubiquitin-		•
gene	protein ligase WWP2 mRNA, complete_cds_{incyte_PD:869818}	869818	£.2-
	UDP-Gal:betaGlcNAc_beta_1,4-		
gene	_galactosyltransferase,_polypeptide_1_{Incyte_PD:1736926}	1736926	-3
aeue	Human_mRNA_for_KIAA0220_gene,_partial_cds_{Incyte_PD:2657738}	2657738	6-
gene	splicing_factor,_arginine/serine-rich_6_{Incyte_PD:1728574}	1728574	-3
gene	Interleukin_enhancer_binding_factor_3,_90kD_{Incyte_PD:1674263}	1674263	-3,1
gene	ESTs_{Incyte_PD:1635864}	1635864	-3.2
gene	4 (Incyte_PD:6	617517	-3.3
gene	eukaryotic_translation_initiation_factor_4_gamma,_1_{Incyte_PD:1965695}	1965695	-3.4
gene	{Incyte_PD:8524	85246	-3.4
gene	zinc_finger_protein_162_{Incyte_PD:2655068}	2655068	-3.5
gene	Linteracting_peptide_5_mRNA,_partial_cds_{Incyte_PD:4251662}	4251662	7.5 3.7
	Homo_sapiens_ataxin-2-		
gene	like_protein_A2LP_(A2LG)_mRNA,_complete_cds_{Incyte_PD:1712724}	1712724	2.5.4.1. 53:7
gene	quiescin_Q6_{Incyte_PD:1854220}	1854220	-3.8
gene	{Incyte_PD:86661}	86661	-3.9
gene	orotein_1_{Incyte_PD:2700234}	2700234	-3.9
gene	yotiao_{Incyte_PD:3868809}	3868809	-4.1
gene	_11,_smooth_muscle_{Incyte	1866751	
gene	AAT_displaceme	2372648	-4.1
gene	14	1708528	-4.2
gene	nucleoporin_98kD_{Incyte_PD:1611993}	1611993	-4.2
	ESTs, Highly_similar_to_(defline_not_available_3986200)_[H.sapiens]_{Incyte_PD:1		
gene	554358}	1554358	4.4-
gene	ane, partial cds {Incyte_PD:1429306}	1429306	4.5
gene	J:2992994}	2992994	
	U5 snRNP-		
gene	tein_(220_kD),_ortholog_of_Scerevisiae_Prp8p_{Incyte_PD:3616229}	3616229	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	ser-		
ou o c	Thr_protein_kinase_related_to_the_myotonic_dystrophy_protein_kinase_{Incyte_PD:	1602261	**************************************
9000	ain and RLD 2 (Incyte PD:2739109)	2739109	4.9
9000		2962167	-4.9 sedalin-1
9010			

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					-	
4.9	2.5-	2.5-	-6.7	2-	-7.4	-28
1599344	3427594	2314555	486304	3030988	2578710	1829709
laminin, gamma 1 (formerly LAMB2) {Incyte PD:1599344}		protein_phosphatase_1,_regulatory_subunit_10_{Incyte_PD:2314555}	general_transcription_factor_IIIC,_polypeptide_1_(alpha_subunit,_220kD_)_{Incyte_PD:486304}	ESTs_Highly_similar_to_Ran/TC4- binding_nucleopore_protein_[H.sapiens]_{Incyte_PD:3030988}	Homo sapiens mRNA for KIAA0911 protein, complete cds {Incyte_PD:2578710} 2578710	valyl-tRNA synthetase 1 {Incyte PD:1829709}
gene	gene	gene	eue	gene	dene	gene

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breast		Г		1	=	100	ق	inno	Е	T.		
Description	PL-4B P	PL2B BDEnor B	PL-68 BDEnor 8	PL-8B BDEnor	PL-3B BDEnor	PL-5B BDEnor	PL-18 BDEnor	PL-78	PL-9B	PC-108	PI-14B	PL-12B
AA107035 guanyiato cyclasse activator 2b (retina)	-1.2	-1,3				3.2	-1.5	-1,9		1		6.5
AA571177_BIKEN_cDNA_5930412E23_gane	6.7	-1.0	1.	-1.1	-1.1	1.17304+~	1.2	-1.1	-1.0			6.84792
W17866 uterine-specific proline-rich acidic protein	-1.4	-1.7	-1.2	-1.4	-1.2	1,8118,	-2.5	-1.0	-1.3	-1.3	-1.5	2.9
AA24220f serine protesse Inhibitor Kazal type 3	1.5		1.4	1.1	2.5	-1.0	-1.8	1.2	-9.2			
AA242102_villin	1.1	4,1-	1.4	1.3	1.3	1.2	-1.6	-1,3	1.8	12		2.4
Al046662 factate dehydroganase q. Orchain spanir appoil	1.2	9	1.3	1.5	1.3	1.27823~	-2.2	-1.0	-1.1	6.		7
AA220024_trophoblast_specific_protein	1.5	-2.0	-1.2	1.5	1.1	-1.0	-2.2	-1.2	4.1	1.		23
AI549624 RIKEN cDNA 0610041E09 gene	1.8	8	-1.3	3.6	61	-1.01549+-	1.1	2.2				2.3
A1326499_epidermal_growth_factor	1.3	-1.4	-1.2		F. F.	-1.4	-1.4	1.5	3.8	1.3		2.8
Al876997_carboxyl_ester_lipase	1.5	8.	-1.4		-8.9	1.9	-1.3	-1.4	-1.1	1.1	2.0	2.2
AA469630_choline_kinase	\$ <u>;</u>		-1.4	3.1	2.0	.31548+~	1.3	2.3	202	6		
W14224_N-myc_downstream_regulated_1	1.1	1.0 1.0		1.1	63	-1.0	1.2	1.1	60			77
AA529824 fatty acid binding protein 2, intestinal	-1.5	-1.5	-1.7	-	-1.1	2.6	-2.3	1.0	4.1			2.
AI527496 Mus musculus mRNA, complete ods, similar to L-amino acid oxidase	1,6	-1.	5	-1.2	-1.1	-1.19867~	-1,6	1.				
Al447967_ESTs	1.1		.0557+	2.5	1.68583+	-1.08065+	2.8	1.6				
AA688976_ESTs	1.1	-7	.2.6 2.6			1.17361+-	2.8	1.88868+	1.7	4.		12
AA080175_claudin_8	-1.0 1.1	1.3	1.1		1.1	-1.00278~	1.2	-1.2	1.3			90
Al481982_EST	1.5 1.7	1.0	. 55		1,4283*	-+.60909+-		2.33182*	į			2.0
A1563220_ESTs	1.47814* -1.0	1.3		1.9	1.16813* -	-1.30242-	-1.1	11. 32. 22.	2.0	81	.976	
AA792499 ankynin-like repeat prolein	1.8		1.1		2	.05661~		İ				2.0
Al549654 programmed cell death 10	1.24627+ 2.(2,027.25-	-1.0038+ 2.8		1.8	1.10261+~	\$3000 E	168584.1	1,60094+-1	1.3	91	
AA210488_ESTs	1.8	-11	1 24	1.5	5	2483+~	1.2	ĺ,			lie.	ŏ
Al614454_reduced_in_osteosclerosts_transporter	1.7	1.8	, 10 , 10	21 2		1.11125~				2.2	9	1.3
AA288467_giycosy/ation_dependent_cell_adhesion_molecule_1	1.0	1.2	1.2			1.2	2.1	-1,3	1.0	1.1	7	
AA290390_cell_death-inducing_DNA_fragmentation_factor_alpha_subunit-like_effector_B	1.2 -1.5	1.4	1.2	1.3		1.1	-1.5	1.6	1.3	1.2		0
AA445667_RIKEN_cDNA_4632401C08_gene	1.3 -1.2	2 -20		2.1		1.1	1.3	-1.2	1.8			-61

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AA622060 BIKEN cDNA 2440124117 gene	1.5	1.5	1.1	**	1.36143*	-1.3	1.8	£77425°	1.7	1.4	2.0	1.9	
	4.	4.	-1.2	8.3	•	-1.01971+~	1.3	1.8	1.5	1.3	1.8	1.9	Alcohol.
enerific rana 22	<u> </u>	<u>1.</u> 8.	12	: \$	1.3	1.9371-	-1.8	-1.0	1.3	1.1	1,4	1.0	4kmil.
	1.3	1.6		22	2.0	-1.27077-	1.1	1.9	81	1.2	1.9	6,1	4,5%
Moderately_similar_to_S- in_synthase_thioEsterase_MEDIUM_CHAIN_IB_noweolicus	1.4	17	75.	1.5	1.1	-1.11723-	-1.8	-1.0	1.3	1.1	1.2	1.8	
AI892599 RIKEN CINA 6830499815 Gene	0.1	-1.3	1.1	1.9	1.3	-2.1	-1.8	-1.0	1.5	1.2	1,2	# C%	201 Cs. I
	1.7	-1.5	-1.2	1.2	-1.0	1.20303~	-1.1	-1.2	1.2	1.2	1,2	1.8	iras
	-1.1	1.0	-1.2	F	-1.2	2943241-	-1.6	1.1	1.0	1.2	1.1	1.9	650
W/12985 annexin A10	7,5	-1.7	-1.1	-2.3	-8.5	-1.03567~	-1,3	1.1	<u>+</u>	-1.0	1.0	-1.9	
AW209707 hemorichin 7 hets-like embronnic chain	-1.5	-1.5	1.1	-1.8	-1.4	-1.80487~	1.7	-1.2	-1.4	1.1	-2.7	-19	- T
AI593096_EST5, Weakly_similar_to_NTC1_MOUSE_NEUROGENIC_LOCUS_NOTCH_HOMOLOG_PROTEIN_1_PREC URSOR_M.musculus]	-1.3	-1.3	-1.0	1.1	1.2	1.78593+-	-1.2	-1.2	 .51	-1.3	1.7	1.9	1
	- 1.25704+	1.37307+	1.03755+	1.33228	-1.0	1.4912+~	-1.2	-1.178+	6,7	-1.2	-1.1	-1.9	
AA607044 RIKEN cDNA 2700099C19 gene	-1.4	-1.3	-1.5	-2.2	-1.0	-1.4	-1.1	-1,4	-1,4	-1,3	-1.3	-1.9	1
AA611085 glypican 1	1,2665+	1.05915+	1.19353+	1.10085	1,81549	2.07471+-	-1.26963+ 1.20291+		1.04301+	-1.3	-1.1	-1,9	· , I
AA675111 RIKEN cDNA 1810007A24 gene	1.4	1.3	-1.0	-2.1	-14.0	-1.5		-1.4	-2.2	-1.2	-1.2	-2.0	
AA068763 hemoolobin, beta adult maior chain	1.3	-1.2	4.1	0	1.1	4.2	3.8	<u>+</u>	5.	1.5	-1.8	-2.0	Т
AA108071 hemoqlobin, beta adult major chain	1.3	-1.4	1.2	-3.0	-1.1	4.3	3.2	1.	-1.3	1.8	1.7	2.0	-1
AA840565 RIKEN cDNA 1300019P08 gene	-1.2	-1.2	-1.1	1.1	-1.0	1.20536~	-1.5	-1.4	-1,1	-1.3	-1.2	-2.1	- 1
AA718468 ESTs	1,16834+	1.40655+	1,07363+ -1.2	-1.2	1.1	1.65894=-	1.07881+	-1.09891+	5.	- 1.18257 +	-1,3	-2.1	
AI536309 RIKEN cDNA 2210410L06 gene	-1.8	-1.8	4.1-	-2.1	-1,9	1.1	-1.5	-2.0	-1.6	-2.1	-1.5	2.1	
A188547 ESTs	-1.0	1.24926+	1.05647+	1.32972	1.1	-1.49596+~	-1.5	1.33285+	-1.1477+	-1,3	1.2	2.2	
W41372 innounting eratein, mitochandrial	1.2	۲.	-1.0	-1.1	1.0	1.05988+~	1.1	-18	1,1	-1.1	1.1	-2.2	
AA182334 imminoolohulin heavy chain 1 (serum loG2a)	1.0	1.16626+	-1.0	1.1	1.1	-1.84425~	-1.14317+ 1.1		<u>.</u>	1.2	7	2.2	101/
W33918_senne_(or_cysteine)_proteinase_inhibitor_clade_F (alpha- 2_anticlasmin_nimment_e-nithelium_devived_factor)_member_2	1	1.1	1.5	-1.1	-1.1	-1.36639	1.2	-3.1	1.1	1.4	1.6	-2.2	
ל_מוווסומאוווון, מומוופון במוניפותיין עפוויפע יפטיטין ווייסיייפין		8											1

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AA967824_arginine_vasopressin	1.4	-1.6	-1.2	-1.1	-1.9	-2.7	-2.0	4.1-	-1.3	4.1	-1.2	-2,3
AA056835_corticosteroid_binding_globulin	1.0	1.2	#5 #*	-1.1	1.2	1.4	-2.4	-2.3	1.1	-1.0	-1.3	-2.4
AA138265_RIKEN_cDNA_2010309G21_gene	-1.1	-2.2	5.5	-1.2	-1.0	-1.9	-1.1	1.1	-1.3	-1.0	-1.0	-2.4
AA152940_immunoglobulin_kappa_chain_vaniable_28_(V28)	1.3	-1.6	-1.5	-1.0	-2.1	-3.1	-2.2	-1.3	-1.3	97		-2.5
AA822106_ESTs,_Weakiy_similar_to_CO8A_HUMAN_COMPLEMENT_COMPONENT_C8_ALPHA_CHAIN_PRECURSO R_[H.sapiens]	- 22	4	22	0.1	1.1	2.00798	-1.8	-20.2	-1.5	1.3	4.1-	-2.7
AW496194_inmunoglobulin_kappa_chain_variable_20_(V20_family)	1,4	-1.2	-1.4	-1.1	-1.9	-2.9	-2.6	-1.6	-1.0	1.4	-1.0	-2.7
Al336058_serum_albumin_variant	8.8	7.	1.0	4.	-1.1	1.68348-	-1.3	-23.1	-1.4	-1.5	-1.3	-2.9
A1158823 immunoglobulin heavy chain 3 (serum 1gG2b)	-1.0	9.1.0	1.0	1.5	ئ. تن	-2.52501~	12	1.2	1,4	6	2,	-3.4

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TABLE 2

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Susefuleineseln	las	panc		stom	iz	00	br	guni	Diad	Kian	in in	Ilalis
לו הלפוות ועובות של		T	100	200	8 80 80 80 80 80 80 80 80 80 80 80 80 80	ol -58 RDFnor	PL-18 BDEnor	PL-78 8DEnor	PL-98 BDEnor	PL-10B BDEnor	11B_BDE	PL-12B BDEnor
	PL-4B_BDEnor	PL-28_BDEnor	PL-68_BDEnor	- 13		0.000	110	1723				
A1481982 EST	7.5	1.7	1.0	2.9	1.4283*	-1.60668+~	8	2,331821	2.08474			2.0
AISCOSSA BIKEN ONNA BRIONATEDS GOID	1.6	1.3	-1.3	3.6	1.9	-1.01549+~	1.1	2.2	5.1	4.6	2.5	2.3
	-1 1	-1 4	1.4	1.4	1.3	2.0	-1.5	1.2	1.1	1.2	5:3	-1.2
AAZ/0885 parvaloumii				9		1.31548+	1.3	82	2.0	1.6	2.2	2.4
AAAbbad choline kinase			57+		÷83	-1.08065+~	2.8		17	1.8	2.1	2.1
AI44796/ ESTS		4 4							-1.0	-1.2		-1,6
AA/54922 stearoyl-Coenzyme A desaturase 1							-1.3	1.4	1.5	1.3		1.5
Al614443_3-phosphoadenosine_5-phosphosulfate_synthase_2	1.0					-1.20582+-			1.8	1.4		1.7
Alss3232_ribosomal_protein_sb	4.1		14			-1.9		-1.4	-1.1	1.1	2.0	2.2
AI876997 carboxyl ester lipase	5 2					1.1	1.2	1.8	64	1.7		LT
AASST920 Raibry associated Eps domain containing process						1.2437+~	4.1	1.6	, 2	1.4		17
AAS44433 glilydioologale ueriydrugeriase	1.	1.0	-1.2			-1.3		1.5	1.2	1.2	2.0	1.8
Alus/649 transmon protein 1	-					-1.0	1.1	1.8	1.2	1.2	20	1.8
Albousse Kikely culvA 18100 lower gene	- ;			i.		-+9(+ 59304+	1.88984	1.5	1.4		2.11351+
AA473562_ESTs, Moderately similar to allas ULCT [H.sapiens]	1.3	2 1			47.3*		36.75	M	1.2	1.4		1.8
AA623060 RIKEN cDNA 2410124L17 gene	1.5	1.5			2	5:15			1 1			4.5
AA869173 defensin related cryptdin 6	-1.2	1.1				C 0	Control of the			2 :		
AA588976 ESTs	1.1	1.8	-1.5	28	1.7	1.17361+~		upli		1.4	1	7
AA517906 T-hox 15	1.26469+	1.12314+	-1.10579+	2 07 123+	1.43344+	-1.26463+~	1.965854	1.48842+	1.35698+	1.49743+		1.2
AAAESOSA Dirhiin domain EQT	1.3	1.8	1.0		67	-1,58578*~	1.3	1.8	2.0	1.5		1.8
יייייייייייייייייייייייייייייייייייייי	, ,	- A		2.6	1.32145*	-1.2		1,8	1/2	1.5	. 61	1.5
AA517691 ESTS	5 4					-1 27077~			1.9	1.2		61
AA073925_ESTs	5:[9			7 A A				1.1	1.0		-
AA473526_carnitine_acetyltransferase AA789873_ATPase, H+ transporting, lysosomal_(vacuolar_proton_pump)_	-1.0		-1.3			7-1-			4		w 257 A	
42kD	-1.5	1.4	1.3		4	2	11.	2:-	2 3	2 9		! .
W08947_non-catalytic_region_of_tyrosine_kinase_adaptor_protein_2	-1.8	1.1	1.3	1.0	1.2	1,4		-2.2	-1.0	-1.5	T	71.7
W36474 metallothionein 2	-1.2	-2.2	2.1	1.2	8.	1.8	1.1	-1.6	-1.1	97.	Т	1.0
AARR7R21 S-phase kinase-associated protein 2 (045)	-1.8	-1.2	20	1.5	1.2	274757+-	-1.73102+	-2.2	-1,8	-1.4	-1.9	-1.3
AAASSER matallathionain 4	1.0	1.1	2.5	1.2	24	4.6	1.2	-1.6	-1.3	4.6	-1.9	-1.2
ALEABORE and Adopted transmintion factor 3	-2.0	1.1	1.2		1.4	1.88234+	-1,75763+	-2.0	-1.6	-1.3	-1.9	-1.0
A Action of the property of th	1.0	-1.0	4.8	-1.6	1.3	1.2	-1.3	-3,4	-1.2	1.3	-1.9	-1.7
A A GO A GOAL CONTINUE TO THE	-1.9	1.4	1.3	1.3	1.5	2.60454++	1.0	-2.7	-1.4	-1.1	-1.9	-1,3
A1905000 mollocoptin E	1.2	1.3	1.6		1.5	-1.0	1.5	-1.9	-1.3	-1.5	-2.0	-1.2
Aiszados apolipudioren E	1.0	1 1	1.5	-1.5	-1.4	1.55627~	-1.3	-7.7	-1.0	1.1	-2.0	-1.6
AA822116 transityretin	7.11		2									

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W99034_ESTs	-1.2	1.3	2.2	1.5	1.6	1,63416	1.0	-2.0	-1.4	-1.3	-2.0	1.0
AA066016_RIKEN_cDNA_1190002H23_gene	-1.6	1.2			1.5	3.332/8+-	-2.0	-2.4	-1.4	-1.6	-2.0	-1.3
AA763276_small_muscle_protein,_X-linked	-1.7	-1.4	1.1	1.6	1.2	1.8	4.6	-2.5	-1.6	-1.2	-2.0	-1.5
AA607572_RIKEN_cDNA_1810017F10_gene	-1.3	1.1	1.4	1.1	-1.0	1.50739~	1.0	-1.8	1.9	-1.3	-2.0	-1.6
AA437863_RIKEN_cDNA_1200013108_gene	-1.6	1.0	1.4	1.4	1.3	2,48975-	-1.4	-2.0	1.7	-1.1	-2.0	-1,3
AA497627_intersectin_(SH3_domain_protein_1A)	-1.6	1.0	1.1	20	1.5	2,70,724-	-1.0	-1,8	-1.5	-1.2	-2.1	-1.2
AI047903_topoisomerase_(DNA)_III_beta	-1.7	-1.0	1.4		1.1	2 1785-	-1.4	-2.5	-1.7	-1.5	-2.1	-1.5
AA711868_sialoadhesin	-1.4	1.2	1.4	1.4	1.4	273327	-1.2	-1.8	-1.4	-1.2	-2.1	-1.4
AA013726_cathepsin_J	-1.0	-1.0	-1.2	1,8	1.9	-1.4	-1.2	9	1.2	1.1	-2.1	1.5
Al428661 ESTs	-2.6	-1.1	1.0	-1.4	1.2	1.2	-1.6	-2.6	-2.1	-1.7	-2.2	-1.5
AA880530_Public_domain_EST	-1.5	-1.0	1.5	1,2	1.2	1.56832+-	1.5	-2.2	-1.1	-1.2	-2.2	-1.1
Al324392_alpha_fetoprotein	-1.1	-1.8		-1,3	-1.4	-1.3	-1.3	-1.5	-1.0	-1.3	-2.2	-1.8
W65070_ESTs	-1.2		21	1,7	1.6	1.8	1.1	-2.6	-1.4	-1.4	-2.3	-1.1
AA024217 Public domain EST	-2.5	1.8		1.2	82	2.2	-1.0	4.2	-1.9	-1.2	-2.3	1.1
AA474336_synaptonemal_complex_protein_3	-2.8	1.2	2.6	1.4		2.74133-	1.1	-3.7	-2.1	-1.4	-2.3	-1.3
AA624843_hemoglobin_Y_beta-like_embryonic_chain	-1.4	-1.6	1.1	-1.2	-1.1	1.3	-1.7	-1.6	-1.3	-1.0	-2.3	-1.5
AA771229_ESTs,_Weakly, similar_to_zinc_finger_protein_95_[M.musculus]	-2.4	1.2	1.3	1.2	1.2	1,7116-:	-2.0	3.3	-2.2	4.1-	-2.4	-1.4
AA272836_aquaporin_8	-1.1	1.2	-1.1	1.4	1.4	-2.8	1.2	1.0	1.0	1.2	-2.4	1.3
AA546645_cell_division_cycle_2_homolog_(S_pombe)-like_2	-2.1	-1.1	1.3	4.1	1.1	2.3.34	-1.5	-3.0	-2.3	-1.5	-2.4	-1,4
AA874101_tumor-associated_calcium_signal_transducer_2	-2.6	-1.1	1.5	1.3	1.2	6.5.31	-1.7	-2.1	-1.5	-1.5	-2,4	-1.2
AA797886_ESTs,_Weakly_similar_to_ORF2_[M.musculus]	-1.8	1.4	1.2	-1.0			-1.4	-1.3	-1.7	-1.5	-2.4	-1.2
AA822098_apolipoprotein_A-I	-1.9	-1.5	1.1	-2.4	3.4	2.4	-1.9	0.6-	-1.2	-2.1	-2,5	-1.6
AA414078_DNA_segment,_Chr_7,_ERATO_Doi_486,_expressed	-1.7	1.2	1.4	1.2	1.2	2,63818+~	1.0	-2.0	4.1-	-1.1	-2.5	-1.2
AA176045 forkhead box C2	-2,5	1.1	1.4	1,4	1.1	1.21	-1,7	-3.0	-2.3	-1.6	-2,5	-1.1
AA034678_rhotekin	-2.3	1.0	1.2	-1.0	1.2	7.4	-1.3	-2.5	-2.1	-1.4	-2.6	-1.4
AW209707_hemoglobin_Z_beta-like_embryonic_chain	-1.5	-1.5	1.1	-1.8	-1.4	-1.80487~		-1.2	-1.4	1.1	-2.7	4.9
AA014727_tumor-suppressing_subchromosomal_transferable_fragment_3	-2.1	1.	1,8 71.2		1.1	2.00236	-1.8	3.0	2.1	-1.8	-2.9	-1.0
AA795220_ADP-ribosylarginine_hydrolase	1.0	-1.1	1.2	1.1	-1.1	-1.29404~	1.1	1.1	1.1	1.0	-3.3	-1.0
AA189266_ESTs	-3.2	1.4	1.5	1.5	1.3		-1.3	-5.6	-3.0	-1.8	-3.9	-1 4
W56995 hemoglobin X. alpha-like embroonic chain in Hba complex	1.1	-1,6	-1.3	-1.2	-2.2	1.11232-	-2.1	-2.0	1.0	-1.2	4	9

TABLE 2

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kidnev	spi	panc	Ν	stom	int	103	br	lung	blad	kidn	pl/ut	шаш
December	PL.	PL.	PL-	PL.	PL-	PI-5B BDEnor	PL- 1B BDEnor	PL-	PL- 9B BDEnor	PL- 10B_BDEn 1 or	PL- 11B_BDEno PL- 198	PL- 128 BDFoor
description AA762401 ESTV	i i	1	-1.23697+	1.12201+	-1.35665+	-1.61968+~		4845+		3.8	+	1.4
Al481911 Mus musculus clone MGC:6727 mRNA complets cds	1.1-	-2.0	1,8	0,1	8.1	-2.3	-1.5	-2.4	-1.4	89	4,	4.1-
			12	-1.1	-1.1	1.4	-1.4	1.1	1.1	2.4	-1.11695*	1.1
	1.3	-1.3	0.8	1.3	1.4	1.0	-2.4	1.3	1.1	2.3	1.1	1.1
AI155437_Mus_musculus_20alpha-HSD_mRNA_for_20alpha-hydroxysteroid dehydrogenase, complete cds	.3		-1.2	1.	1.3	1.15702+~	-1.2	1.1	-1.0		-1.2	.
Al614454 reduced in osteosclerosis transporter	4.	-1.1	-1.8	1.9		171.1125~	1.3	1.2	1.2	2.2	1.5	5.
AA821997 myoglobin	-1.0	-2.5	1.0	1.1	1.0	-1.2	-1.8	-1.7	43	2.2	-1.1	7.1.
W16059 glutathione S-transferase_omega_1	1.2	-1.1	21	-1.4	-1.1	-1.2	1.2	1.2	1.4	2.2	-1.0	1.0
AA674177 cytochrome P450, 2a4	1.2	-1.6	2.8	1.1	1.3	1,72563-	-2.1	1.2	-1.0	2.1	-1.1	-1.2
AA087441 RIKEN cDNA 0610011L04 gene	1.2	1.1	8'1 (1.3	-1.1	1.1497~	-1.0	1.2	9"	2.1	1.2	-1.1
AA146478 M.musculus mRNA (3C10) for IgA V-D-J-heavy chain	-1.3	1.0		12	-2.0	-2.4	-1.1	-1.4	1.5	2.0	1.1	. 1.6
AA098815 Public domain EST	1.2	-1.3	1.2	1.5	1.2	2,22987	-1.9	-1.2	1.3	2.0	1.0	1.4
A4145454 insulin-like growth factor binding protein 4	0,1	-1.5	1.3	-1.2	-1.1	1.0	-1.1	1.0	1.4	2.0	1.0	1.2
AI549666 ESTs	1.35481+	1.851194	1.04863+	2.2	1.851874	1.52793+~	1.07014+	1,61878+	1.1	2.0	1.52	.05047+
AA108417 insulin-like growth factor binding protein 4	-1.0	-1.5	1.2	-1.2	-1.1	-1.3	1.0	-1.2	1.2	7.7	-1.1	-1.3
AA450534 glutamine synthetase pseudogene 1	1.1	-1.1	1.2	1.4	1.2	-1.3	1.4	1.4	1.3		1.4	1.
A1552658_ESTs	-1.3	1.1	-1.2	1.2	-1.1	1.06684+~	1.2	-1.1	-1.0	6.9	-1.3	-1.0
Al390138_RIKEN_cDNA_3930401B19_gene	4.1.4	-10.7	-1.1	-2.0	-1.2	-2.1	-1.3	-1.2	1.5	6.	<u>6.</u>	7-
AA681098_ESTs	-1.13993+	-1.31577+	1.39877+	1.02396+	-1.06627+	1.49883+~	-1.69915+	1.35989+	1.13503+	-1.91	3409+	-1.19374+
Al385457_retinol_binding_protein_2_cellular	-2.0	-2.1	-1.6	<u>t.</u>	1.5	1.9	-1.3	-1,9	-1.6	-1.9	-1.5	-1.7
Al894032 trefail factor 2 (spasmolytic protein 1)	-1.1	1.8	-1.2	-2.0	-82.1	-1.89777~	-1,4	1.0	-1.4	-1.9	7.0	1.4
Al597097 Public domain EST	1.3	6.	-1.1	-1.0	1.6	1.2	1.2	-1.0	1.2	-1.9	1.0	L.

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	7	1.0	1.3	0.		-1.8 -2.26973~	1.2	-1.4	-1.4	-2.0	-1.0	-1.1
Aluso489 cyclin G	1											
	7	9	-1.0	1.2	1.5	-1.0	-1.1	1.1	-1.6	-2.1	-1.2	-1.0
Alasbatu cadherir 13				1 12 1						21		1.
ando 80 lotades ANGo Marie accepta	7	<u></u>	4	-2.1	-1.9	1.1	-1.5	-2.0	-1.6	-2.1	-1.5	-2.1
ABSSOUGH KINEM CEIVA ZZIOTIOLOG BOILG	, ,					ř	7	o o	7	. 6		7.
AA822098 apolipoprotein A-l	9	-1.5	1.1	-2.4	7	6.1	2		4:1	i		
	- U	-2.1	<u>-£</u>	-1.1	-2.0	-1.4	-1.3	1.8	4.	-2.1	1.4	1.2
AA684191 CUC-like kinase	2										-	
A A 0 2 2 4 0 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	-2.4	-2.4 -28.7649*	-7.8	-1.1	1.43224~	-1.3	-71.1	-1.6	-2.2	F.	-1.2
ANDZZ IOO IIIBIO UIIIBIO PIOGEII I							,	•		c	7	7
AA434680 ESTs	- :	-1.1	-1.0	-1.0	-	7.1	?	2:	2.00	2.2.5	2.1	2.1.
	-	-18	1.1-	1.2	1.4	2.3	-2.3	-1.2	•	-2.4	1.3	1,6
AA108495 geoxyribonuciease I										-		
AA18421 ESTs	-1.1	1.0	-1.0	1.0	-1.4	1.1	4.	1.2	-1.3	-2.4	1-1	-1.1
A A A S O S S S S S S S S S S S S S S S	7	. 1.8	-1.1	1.4	-1.5	1.0	-1.3	1.1	-1.7	-2.7	-1.1	1.1
ANDOCOCO NINEIN COINT INCOCEDIMOS BOTTO												

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bladder	lds	panc	Ιίν	stom	int	103	pr	lung	blad	kidn	pl/ut	паш
Description	PL- 48_BDEnor	PL- 28_BDEnor (PL- 6B_BDEnor	PL- SB_BDE F	PL- 8B_BDE PL- nor 3B_BDEnor	PL-5B_BDEnor	PL- 1B_BDEnor	PL- 7B_BDEnor	<u>L</u>	끰	PL- 118_BDEnor o	PL- 128_80En or
likrein 26	1		-1.1	-1.4	-1,9	-1.2	-1.5	CHARLES AND ADDRESS OF THE PARTY OF THE PART	10.1	1.1		-1,4
				-1.4	-2.7	-2.3	-1.2	2.8	7.2			1.3
thydrase 6		-1.7	-1.0	-1.2	-1.2	1.5	-2.0	1.8	6.4	-1.6	-1.2	-1.4
d protain	-1.1	-1.2	-1.1	1.1	1.1	1.1	-1.4	1,7	5.2	1.1		1.1
		-1.4	-1.2	1.	-1.1	-1.4	-1.4		3.9	1.3 1.7		2.3
* And Control of the	1.1	1.1	-1.1	-1.1	1.1	-1.03021+~	-1.0	21	3,0	-1.0 1.1		1.2
AAB12413 chithinase apploignment	-1.1	-1.3	1.8	-1.2	1.2	3.09734-	-2.3			-1.2	-1.2	-1.0
	-1.1	-1.3	1.2	1.1	-1.1	-1.06612~	-1.1	1.3	2,3	-1.1 1.2		1.2
	1.08217+	-1.76658+	1.14152+	-1.0	-1.10855+	-1.28428+~	1.00186+	-1.11217+	2.2	1.3	-1.11428+	-1.3
axillary gland androgen regulated protein 1	-1.1	-1.6	1.0	-1.3	-1.2	1,5	-2.0	1.3	22	-1.2	-1.2	1.8
	87+	ŧ	-1.18563+	2.3	1.8	-1,26743+~	507+	1.53405+		1.8	635+	1.8213+
AI549624 RIKEN cDNA 0610041E09 gene			-1.3	3.6	1.9	-1.01549+~	1.1	2.2	1 72	19 25	W	2.3
	1,5	1.5	-1.0	2.4	1.6	-1.30902+~	1.4	2.3	2.1	4.7	.98	9'1
e kinase			-1.4	3.1	2.0	1.31548+~	1.3	2.3	2.0	1.6 2.2		2,1
AI553220_ESTs	1.47814*	-1.0	1.3	9:	1.16813*	-1.30242-	-1.1	.98	2.0	1.6	2.57946* 2	2.0
AA469724_WW_domain_binding_protein_5	1.3	1.4	-1.1	20	1.5	1.0	1.1		2.0	1.3 †.€		1.6
AA153231_Public_domain_EST	1.3	1,6	1.0	2.2	1.7	-1.58578*~	1.3	1.8	2.0	1.5		8
AA155097_ESTs	1.4		1.1	2.0	1,2	-1.2	1.4	1.89692*	2.0	1.2 1.7		1.6
AA445867_RIKEN_cDNA_4832401C08_gene	1.3	-1.2	2.0		-1.0	1.1	1.3	-1.2	1.9	1.4 4.8		5 .
containing protein		1.7	1.1		1,5	-1.1	1.2			1,7		1,7
W82228_annexin_A3	1.5	-1.4	1.0	-1.7	-1.7	-1.86744+~	1.1	1.4	1.9	1.0 1.3	3	-
AA073925_ESTs	1.3	1.6	-1.4	2.5	2.0	-1.27077-	1.1	1.0	1.9 1.2		1.6	(.9
AA607572 RIKEN cDNA 1810017F10 gene	-1.3	1.1	1.4	-	-1.0	1.50739~	1.0	-1.8	-1.9	-1.3	-2.0	-1.6
AA199011 histocompatibility 2, class II antigen A, alpha	-1.1	-1.3	1.1	1.0	1.3	4.5	1.2	-	1.9	1.3	-1.0	-1.2
AA880220 jagged 1	-1.3	-1.1	-1.2	-1.4		-1.6	1.3	-1.2	1.9	-1.0	-1.5	-1.3
domain EST	-2.5	8.1	2.0	1.2	23	2.2	-1.0	4.2	-1.9	-1.2	-2.3	1.1
AA681602_enolase_3, beta_muscle	1.1	-1.7	-1.0	-1.4	1.3	-1.5	-2.5	-1.3	-1.9	1.2		4.1-
AA759679 la-associated invariant chain	-1.0	9.1	-1.6	-1.9	1.5	-3.7	-2.8	-1.0	-1.9	-1.0	-1.3	-1.4
AA414790 leukotriene_A4_hydrolase	-2.1	-2.2	-1.6	2.8	-1.3	-1.6	-1.2	1.7	-2.0	-1.7	1.6	8.
AA982254 RIKEN CDNA 2210010C04 gene	2.3	1.8	-1.3	20	-9.5	-1.3	1.8	-1.5	-2.0	-1.4		-1.1
Al390242 RIKEN cDNA 2310005E10 gene	1,1	-1.1	-1.2	-1,3	-1.3	-1.56397~	-1.1	-1.0	-2.0	-1.1		1.1
AA839138 CD8 antigen, alpha chain	-1.3	-1.08773+	-1.3	80	1.2	-2.63867+~ -4.0		1.0	20 1.1	1.0		1.1

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			18 18 18 18 18 18 18 18 18 18 18 18 18 1									
AA4/4336 synaptonemal complex protein 3	-2.8	1.2	2.8	4.1	1.5	2.74133-	1.1	-3.7	-2.1	-1.4	-2.3	-1.3
AA671135 myosin heavy chain, cardiac muscle, adult	-1.1	1.7	1.3	1.2	1.1		-1.9	-1.3	-2.1	1.4	-1.2	-1.3
AA770924 troponin T3, skeletal, fast	1.4	-1.5	1.1	1.2	1.0	-1.7	-1.8	-1.1		1.0	1.2	-12
AA034678_rhotekin	-2.3	1.0	1.2	1.0	1.2	2.4	-1.3	2.5	-2.1	4.1-	-2.8	-14
Al428661 ESTs	-2.6	-1.1	1.0	-1.4	1.2	1.2	-1.6	-2.6	7	17	-2.2	. T.
AA014727 tumor-suppressing subchromosomal transferable fragment 3	-2.1	1.1	1.8 🐙	-1.2	1.1	2.05235~	1.8	-3.0	Γ	1.8	-2.9	70
AA667301 troponin I, cardiac	1.4	-1.6	-1.1	-2.1	1.3	1.41297~	-2.0	-2.0		0 T	-1.0	1.3
AA675111 RIKEN cDNA 1810007A24 gene	1.4	1.3	-1.0	-2.1	-14.0	-1.5	1.0	-1.4	-2.2	-1.2	-1.2	-2.0
AA771229 ESTs, Weakly similar to zinc finger protein 95 [M.musculus]	-2.4	1.2	1.3	1.2	1.2	1,7415-	-2.0	-3.3		4.1-	-2.4	4.1-
AA881388 ESTs	-1.1	1.0	-1.1	-1.2	1.1	-1.2	1.2	-1.28277*	23	-1.0	-1.0	0.7
W10293 androgen regulated vas deferens protein	1.2	1,4	-1.1	4.	1.2	-1.3	-1.3	1.5		1.2	-1.0	91
AA176045 forkhead box C2	-2.5	1.1	1.4	1.4	1.1	1.1	-1.7	-3.0	-2.3	-1.6	-2.5	-1.1
AA546645 cell division cycle 2 homolog (S. pombe)-like 2	-2.1	-1.1	1.3	1.4	1.1	23	-1.5	-3.0	-2.3	-1.5	-2.4	4.1-
AA221794 regulator of G-protein signaling 2	1.0	-1.7	-1.4	-1,3	1.2	-1.29501~	1.0	-1.0	-2.3	-1.1	-1.3	-1.3
Al451862 RIKEN cDNA 0910001A18 gene	1.8	1.3	-1.1	-2.5	-14.7	-2.6	1.2	-1.3	-2.4		-1.1	-1.3
Ai892132 cytochrome c oxidase, subunit VI a, polypeptide 2	1.1	-1.3	1.1	-1.0	1.1	-1.57226~	-1.2	1.7	-2.4	1.0	-1.0	-1.4
AA065510_defensin_beta_1		-1.4	1.	-1.0	1.2	1.33028~	-1.8	-1.2	2.	1.1	1.1	1.3
Ai386046 trypsin 4	1,1	1.8	1.1	-1.8	-15.9	-2.6	1.8			1.1	-1.3	-1.2
W15001 CD52 antigen	1.1	-1.7	1.2	1.1	1.1	-2.3	-1.2	-1.2	-2.5	1.1	-1.1	1.0
AA238062 CD52 antigen	1.1	-1.6	-1.3	1.0	-1,1	1.9	-1.6	-1.3	-2.6	1.1	-1.2	1.1
AA237793 rat regenerating islet-derived, mouse homolog 1	2.5	1.4	-1.3	-3.9	-11.8	-2.2	1.0	-1.4	-2.7	-1.2	-1.2	-1.2
AA717025_Mus_musculus_10_day_old_male_pancraas_cDNA,_RIKEN_fulllength_enri ched_library, clone:1810009A17_full_insert_sequence	1,9	-1.1	-1.2	. 27	-25.5	5.2	2.1	1.6	-2.9		1.7	4.
AA771566 troponin C, fast skeletal	<u></u>	-1.6	1.4	-1.1	1.0	1,65959~	-2.0	-1.2	-3.0		5.1-	-1.3
AA189266_ESTs	-3.2	1.4	1.5	1.5	1.3	2.1	-1.3	5.6		8.1.	3.9	1.4
AA097074 aquaporin 2	-1.1	-1.0	1.5	1.4	1.5	1.58052~	-1.2	-1.1	3.4	-1.3	1.2	1.2
AA712003 resistin like alpha		-1.4	-1.1	1.3	1.1	-1.65763~	1.0	-1.3	3.7	1.1		-1.4
AA675084_elastase_2		1.4	-1.2	2.7	-21.7	-2.2	-40	-1.9	4.0	4.1-		4.
se 1, pancreatic	17.	2.8	-1.2	-5.8	-16.6	-3.3	1.8	-1.9	4.1	-1.1		-
		-2.5	1.0		1.0	-1.2	(5) (5)	47	4.3	2.2	4.1	4.7
AA821884_amylase_2_pancreatic	3.1		-1.2	-2.8	-32.0	4.0	2.3	-1.2	4.4		1.1	-1.2
AA242201 serine protease inhibitor, Kazal type 3	1.5	1.8	-1.4	1.1	2.5	-1.0	-1.8	1.2	-9.2	-1.0		2.5
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	120	2		PL.	1	3	Dialli	14 Id	Diad	Kidn	pl/ut	mam	
	PL- 4B_BDEnor	PL- 2B_BDEnor	PL- 6B_BDEnor	8B_BDEn or	3B_BDEn or	PL-5B_BDEnor	PL- 1B_BDEnor			P.L. 10B BDEnor	11B_BDEn	12B_BDE	
of Contract	6.4	1.1	1.0	-1.2	1.1		-1.8	_		1.1	-1.2	1	
	1.1	-1.1	-1.0	1.2	8.	-2.0	-1.7	97.6		1.1	10	1 7	
A_2310017.118_gene	-1.2	1.2	::€ :	-1.1	1.2	-1.58765~	1.5	5.8	9	1.1	4.1-	8 7	
W34620 Kalilkrain 28	1.2	1.1	-1.1	-1.4	-1.9	-1.2	-1.5	2.8	10	1.1	1.1	1 4	
	1.8	1.5	-1.2	4.1-	-2.7	-2.3	-1.2	2.8	7.2	1.1	1.0	13	
Ad002310_FBJ_csteosarcona_oncogena	-1.0	-1.3	-1.4	-1.3	1.1-	-2.28344~	1.3	2.7.	1.6	1.0		0.7	
	(XY)	1.1	-1.1	1.3	1.2	-1.6	-1.5	2.4	1.2	1.2		1.5	
	1.5	1.5	-1.0	2.4	1.8	-1.30902+~	4.1	:2	2		. KB	8	
AA469630 choline kinase	17	1.9	-1.4	3.1	2.0	2.0 1.31548+~	1.3	23			22	1	
AA657278 DnaJ (Hsp40) homolog, subfamily B, member 1	1.3	1.12686+	1.1	1.5	1.0	-1.4909+~	1.	2.2				1.4	
AI549624 RIKEN cDNA 0610041E09 gene	1.8	61	-1.3	3.6	. 6	-1.01549+	1.	2.2				2.3	
AA466852 cysteine rich protein 61	1.1	1.1	-1.1	-1.1	1.1	-1.03021+~	1.0	2.4	8.0			1.2	
AA412879 RIKEN cDNA C330006J08 gene	1.6	1.8	-1.0	2,4	1.2	-1.3	1.3	2.0				7.4	
AA073925 ESTs	1.3	1.6	-1.4	2.5	2.0	-1.27077~	1.1	61			ia.	9	
AA726092 RIKEN cDNA 4933419D20 gene	1.1	1.1	1.4	1.0		1,86913+-	-1.26553+	6.				111	
acetyl-CoA_C-acetyltransferase_[H.sapiens]	1.2	1.1	-1.4	44	1.3	1.05496~	1.4	l in				1.6	
	1.3	17	-1.1	2.4	1.4	1.0667~	1.4						
oup A, member 1	-1.0	-1.0	-1.0	8.	-1.3	-1.06815~	-1.8	Mark	1.3			-1.1	
	1.2	-1.1	1.3	<u></u>	-		-2.3	1,9	1.	-1.3		1.3	
DEPENDENT PHOSPHATE TRANSPORT PROTEIN 1 [M.musculus]	1.1	-1.2	-1.1	1.5	1.0	1.88841-	1.	-1.9	-1.3	1.5	1-1	6.7	
	1.2	1.3	1.6	-1,7	1.5	-1.0	1.5	6.				12	
pump)_42kD	-1.5	1.4	1.3	1.0	1.4		-1.1	-1.8				-1.2	
	-1.1	-1.1	1.2	1.3	1,8	-1.04083~	-1.6	-1.9	5:1-			12	
SUR4/Elo3,_yeast)-	-1.4	1.2	1.3	1.1	1.3	1.5	47.	-1.9	-1.7				
AA051684_apolipoprotein_A-II		1.3	-1.0	1.1	-1.0		1,	1				3 2	
uclease 1, pancreatic	1.7	2.9	-1.2	5.8	-16.6	75 21		- 7				1 -	
Al465691 ESTs	-1,6	1.1	1.2	1.2	1.3	-+976	-2.17089+	1.9	1.6			- 	
ng protein 2, cellular	-2.0	-2.1	-1.6	-1.9	1.5	1.8	-1.3.	1.9	Π			-1.7	
AA675084_elastase_2		1.4	-1.2	-2.7	-21.7	-2.2	1,7	-1.9			Γ	4.1.	
	-1.0	-1.2	1.3	-1.9	-1.3	1.2	1.7	1.9	-1.1	1.0		1.4	
AA107035 guanylate cyclase activator 2b (retina)	-1.2	-1.3	1.1	1.1	4		5.	1.9	-1.2	1.2		6.5	

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AA572640 RIKEN cDNA 1700124F02 gene	-1.10123+	-1.00385+	2,1	-1.2	1.2	1.18494+~	1.26699+	-1,9	-1.3	-1.0	-1.2	-1.2
W16266 cytochrome c_oxidase, subunit_VIIa_1	-1.0	-1.8	-1.0	-1.1	1.2	-1.2	-1.1	-1.9	-1.5	-1.1	1.0	-1.8
AA106072 Public domain EST	1.0	-1.7	4,7	4.1	1.0	2,39598~	-2.2	-1.9	1.0	1.3	-1.3	1.1
AA572623 tryptophan 2,3-dioxygenase	-1.0	-1.01186+	1.4	1.1		1.1083~	-1.25829+	-2.0	<u>-1</u>	1:1	-1.1	-1.1
AA065775 gap junction membrane channel protein beta 1	1.2	1,1	1.4	-1.5	4.8	1.1	-1.6	-2.0	-1.2	1.3	-1.3	1.2
AA062408 ESTs, Moderately similar to proteasome inhibitor hPl31 subunit [H.sapiens]	-1.3	1.2	ñ,8	1.1	1.3		1.7	-2.0	-1.3	-1.2	-1,5	-1.1
,	1.01627+	-1.07473+	1.1	-1.0	-1.1	1.11102+~	1.09078+	-2.0	-1.0	-1.0	1.3	1.0
AA546945 tyrosine 3-monooxygenaseltryptophan_5- monooxygenase activation protein, zeta polypeptide	-1.3	1.3	1.4	-1.1	1.2	1.9	-1,2	-2.0	1.5	-1.2	-1.8	-1.1
Al325764 midkine	-1.2	-1.5	-1.5	-1.5	-1.2	-1.2	-1.1	-2.0	-1.2	-1.2	-1.3	-1.4
W08617 zinc finger protein 67	-1.5	-1.1	1.2	-1.2	1.	1.2	-1,4	-2.0	-1.7	-1.3	-1.8	-1.4
AA437863_RIKEN_cDNA_1200013/08_gene	-1.6	1.0	1.4	1.4	1.3	2,48975~	-1,4	-2.0	-1.7	-1.1	-2.0	-1.3
AA414078_DNA_segment,_Chr_7,_ERATO_Doi_486,_expressed	-1.7	1.2	1.4	1.2	1.2	2.83816+-	1.0	-2.0	4.1-	-1.1	-2.5	-1.2
W99034 ESTs	-1.2	1.3	2.2	1.5	1.6	1,63416-110	1.0	-2.0	-14	-1.3	-2.0	1.0
AA667301_troponin_I,_cardiac	1.4	-1.6	-1.1	-2.1	1.3	1.41297~	2.0	-2.0	-2.2	3,55726**	-1.0	1.3
AI608086 runt related transcription factor 3	-2.0	1.1	1.2	4.	4.1	1.98234+~	-1.75763+	-2.0	9	-1.3	-1.9	-1.0
W56995_hemoglobin_X,_alpha-like_embryonic_chain_in_Hba_complex	1.1	-1.6	-1.3	-1.2	-2.2	1.11232~	-2.1	-2.0	0.1	-1.2	4.0	-1.6
AA771393_cytochrome_P450, 2d10	1.2	-1.4	1.3	1.0	1,4	1.0	1.2	-2.0	1.2	1.1	-1.1	-1.0
Al893936_hepatic_nuclear_factor_4	1.0	1.1	1.4	1.1	-	-1.3	1.7	20	1.3	1.2	-1.1	1.2
AI536309 RIKEN CDNA 2210410L06 gene	-1.8	-1.8	-1.4	2.1	6.	1.1	-1.5	-2.0	-1.6	-2.1	-1.5	-2.1
AA475351 cytochrome_P450, steroid inducible 3a13	1.1	-1.1	1.4	1.1	1.3	1.59521~	1.3	-2.0	<u></u>	1.0	1.3	1.1
W62007 neuron specific gene family member 2	-1.5	-1.5	-1.9	2.3	-1.3	-1.0	1.4	-2.0	9.	-1.4	1.3	4.5
AA066694 solute carrier family 27 (fatty acid transporter), member 2	-1.3	-1.5	1.4	1,4	-1.0		-1.3	-2.0		1.2	1.1	
AA231099_necdin	-1.8	1,3	1.1	23	1.7		1.0	2.0	1.3	-1.2	-1.7	9
AA016759 minf chromosome maintenance deficient 6 (S. cerevisiae)	-1.4	1.1	1.1	1.	1.3	3.6	-2.9	-2.0	4.1-	-1.3	-1.6	÷
AI508995 poliovirus receptor-related 1	-1.6	1.3	1.3	-1.0	1.3	1,78243+*	-1.2	-2.0	-1.5	-1.4	-1.7	-1.3
AA107101 prostate stem cell antigen	-1.1	-1.4	-1,3	2.1	6.1	1.51614~	-1.8	-2.1	9	-1.1	4:1-	-1.4
AA874101_tumor-associated_calcium_signal_transducer_2	-2.6	1.1	1.5	1.3	1.2	8.534s to	1.7	-2.1	-1.5	-1.5	-2.4	-12
W13619_small_EDRK-rich_factor_1	1.1	1,1	1.0	-1.0	-1.0	-1.89596~	1.1	2.1	-	-1.1	-1,1	-1.3
AA674987 RIKEN cDNA 1110038G14 gene	-1.1	1.3	-1.1	2.1	1.2	1.5	-1.3	-2.1	4.1-	-1.4	-1.8	-1.2
short- musculus]	3 a F & F	1.8	2.1	1.1	-1 2.	303	-1.5	-2.1	1.2	-1.2	1.0	1.7
AA067002 methionine adenosyltransferase I, alpha	1.4	1.3	1.2	1,3	1,3	1.2999~	1.6	-2.1	1.3	1:1	1.2	1.8
W78548 alpha internexin neuronal intermediate filament protein	1.3	-1.2	-1.2	4.1	1.0	Bar 18-28	1.2	-2.1	1.2	-1.4	4:1-4	-1.6
AA880322 calponin 1	-1.2	-1.4	-1.1	-1.1	1.1	-2.6	1.7	-2.1	-1.5	-1.2	-1.4	-1.0

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A13230E3 forkhead hox D3	-1.5	1.0	1.4	1.0	1.2	3.0	-1.4	-2.1	-1.5	-1.3	-1.7	-1.3
AA822366 inhibitor of DNA binding 4	-2.0.	1.3	1.2	1.5	1.4	2.50864	1.1	-2.1	1.1	-1.5	-1,6	-1.2
AA966993 mutS homolog 5 (E. coli)	-1.5	1.3	1.1	1.3	1.3	2,2814+~	-1.0	-2.1	-1.4	-1.3	-1.8	1.0
AA096594 RIKEN cDNA 2900089E13 gene	-1.5	1.1	1.3	1.4	1.1	1.8	-1.2		-1.3	-1.2	-1.8	-1.3
Al386062 ramonic anhydrase 3	1.1	-1.3	2.1	-1.5	1.1	2.4	-1.7	-2.1	-1.3	-1.2	-1.6	-1.5
AA880530 Public domain EST	-1.5	-1.0	1.5	1.2	1.2	1.583324	1.5	2.2	1.1	-1.2	-2.2	1.1
AA049060 inter alpha-tropsin inhibitor, heavy chain 4	7.5	1.3	1.2	-1.2	-1.0	1.05302~	-2.1	-22	-	1.1	1.4	1.3
AAST1385_Mus_musculus_MRPS6_mRNA_for_mitochondrial_ribosomal_protein_S6_parti a. cds	-1.2	-1.1	1.3	1.3	1.3	2.8	2- 6.1-	-2.2	-1.2	-1.0	4.1-	-1.3
Al510586 Mus_musculus_high- affinity Na+/dicarbowlate cotransporter NaDC3 mRNA, complete_cds	-1.3	-1.4	-1.1	. 1.3	-1.1	2.21173	-1.2	-2.2	6.1.3	1.2	-1.4	1.2
W08947 non-catalytic region of tyrosine kinase adaptor protein 2	-1.8	1.1	1.3	1.0	1.2	1.4	-2.2	-22	8.1.8	-1.3	-1.9	-1.2
AA755870 natriuretic peptide precursor type A	1.1	-1.8	1.2	1.3	-1.1	2.47857-	-1.3	-2.2	-1.8	1.2	1.4	-1.7
AA237986 cvtochrome P450, 3a25	1.5	-1.2	1.3	-1.1	4.0	2,35788-	-1.1	-2.2	1.2	1.1	1.0	1.3
AA674821 folate receptor 1 (adult)	-1.1	-1.3	1.2	1.3	1.1	1.5	-1.2	-2.2	-1.4	1.2	-1.2	1.3
AA755277 inter-aloha tryosin inhibitor, heavy chain 1	1.2	-1.2	1.1	-1.0	1.3	1,71355-	-1.96147+ -2	-2.2	1.2	-1.3	-1.0	1.1
AA867621 S-phase kinase-associated protein 2 (p45)	-1.8	-1.2	2.0	1.5	1,2	2.74757+	-1.73102+	-2.2	1.8	-1.4	-1.9	-1.3
AA066739 RIKEN cDNA 2600001B17 gene	-1.6	1.3	1.5	1,0	1.3	1.2	-1.4	-2:2	1.5	-1.3	-1.8	-1.2
W36030 Friedreich ataxia	-1.5	1.1	1.4	1.1	1.2	1.88415~	-1.6	-2.3	-1.5	-1.4	1.7	-1.3
AA066835 carticosteroid binding globulin	1.0	1.2	1.8	-1.1	1.2	1.4	-2,4	-2.3	1.1	-1.0	-1.3	2.4
AA674450 RIKEN cDNA 1300007005 gene	1.3	-1.8	1.7	1.2	1.3	1,94948~	-1.2	-2.4	-	-1.1	-1.0	1.1
AA881492 ESTs	-2.0	1.3	1.1	-1.2	1.1	1.1	1.0	-2.4	7.	-1.5	-1.7	1.1
AA242360 cytochrome P450, 1a2, aromatic compound inducible	1.3	-1.5	1.4	-1.1	-2.8	-1.33495~	-1.37353+	-2.4	8.	1.1	1.2	1.2
AA238308 complement component 4 binding protein	1.5	-1.1	1.2	-1.4	1.2	-1.42054~	-1.1	-2.4	4.1		1.1	1.0
Al481911 Mus musculus, clone MGC:6727, mRNA, complete cds	-1.1	-2.0	-18:	1.0	-1.8	-2.3	-1.5	-2.4	4.1-	3,8	1.4	4.1-
W82417 apolipoprotein CIV	1.5	-1.4	1.4	-1.0	-1.0	-1.16601~	-1.64355+	-2.4	-	-1.2	1.1	4.1.4
AA242413 asialoolycoprotein receptor 1	1.4	-1.1	1.3	-1.1	1.0	-1.17665+~	-1.2	-2.4	1.	1.1	1.1	1.1
AA066016 RIKEN cDNA 1190002H23 gene	-1.6	1.2	1.2	1.5	1,5	3332181	-2.0	-2.4	4:1-	-1.6	-2.0	-1.3
AA034678 rhotekin	-2.3	1.0	1.2	-1.0	1.2	2.4	-1.3	-2.5	-2.1	4.1-	-2.6	-1.4
AA763276 small muscle protein, X-linked	-1.7	-1.4	1.1	9	1.2	1.3	4.6	-2.5	1.6	-1.2	-2.0	5.5
AI047903 topoisomerase (DNA) III beta	-1.7	-1.0	1.4	1.1	1.1	2.1785-	-1.4	-2.5	-1.7.	-1.5	2.1	-1.5
W65070 ESTs	-1.2	1.4	2.1	2.4	1.6		1.1	-2.6	1.4	-1.4	2.3	÷.
Al428661 ESTs	-2.6	-1.1	1.0	-1.4	1.2	1.2	-1.6	-2.6	-2.1	-1.7	2.2	-1.5
AA881013 cytochrome P450, 2c37	1.0	-1.1	2,8	<u>;</u>	1.8	1.5	-1.2	-2.6	1.0	1.1	1.1	1.5
Al322387 insulin-like growth factor 2	-1.2	-1.8	-1.4	-1.9	-1.5	1.4	-1.5	-2.6	-1.2	-1.6	-1.2	-1.8
Al324412 UDP-qlucuronosyltransferase 2 family, member 5	1.3	-1.3	1.5	1.0	-1.1	4,91048~	1.1	-2.7	1.0	-1.5	-1.1	1.1
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the interacting protein 1 to 12 to 13 to 14 to 15 to 16 to 17 to 14 to 15 to 16 to 17 to 14 to 15 to 16 to 17 to 14 to 15 to 14 to 15 to 17 to 1	AA967219 retinol binding protein 4, plasma	1.1	-1.5	1.3	1.1	1.1	1.3	-1.8	-2.7	1.0	-1.2	1.6	-1.5
1,9 1,4 1,3 1,5 2,004, 10 27 1,4 1,1 1,5 1,3 1,1 1,1 2,005, 1,2 2.9 1,1 1,3 1,4 1,5 1,8 1,1 1,7057- 1,6 3,0 2,1 2,1 1,1 1,8 1,1 1,1 2,005, 1,6 3,0 2,1 2,5 1,1 1,4 1,1 1,7 1,1 2,005, 1,2 3,0 2,3 2,5 1,1 1,4 1,1 1,7 1,1 2,005, 1,2 3,0 2,3 2,5 1,1 1,4 1,1 1,7 1,1 2,005, 1,2 3,1 1,1 3,7 1,2 1,2 1,2 1,2 1,2 1,3 3,4 1,2 3,8 1,2 1,2 1,3 1,2 1,3 1,2 1,3 3,4 1,0 3,8 1,1 1,2 1,3 1,4 1,4 1,4 1,4 1,4 1,3 3,7 1,1 3,9 1,1 1,2 1,3 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 3,1 1,2 1,2 1,3 1,4	W08430 serine protease inhibitor 1-4	6,1	1.3	-1.2	1.1		-1.8		-2.7	1.0	1.1	1.2	1.2
1,	AA684320_activin_receptor_interacting_protein_1	-1.9	1.4	1.3	1,3		2,80454		-2.7	-1.4	-1.1	-1.9	-1.3
13 14 15 14 17,007\$ 16 30 12 21 11 18 12 11 200255 18 30 21 21 11 13 14 11 24 30 21 22 11 14 11 14 11 24 30 22 23 11 14 14 11 24 30 23 24 12 13 14 11 13 3 12 13 14 15 16 13 12 11 14 15 17 15 16 17,005 12 34 11 15 16 13 10 11 24,005 12 34 11 16 13 14 15 14 11 10114 13 34 11 17 18 13 14 15 14 11 37 24 18 19 12 14 15 14 11 10114 13 34 11 18 19 12 14 15 14 11 10114 13 34 11 18 19 12 14 15 14 11 10114 13 34 11 19 12 13 14 15 13 14 14 11 37 24 10 12 13 14 15 13 14 14 11 35 14 11 12 13 15 14 15 13 14 12 13 14 15 15 13 14 13 14 15 15 13 14 14 14 14 14 14 15 15 14 10 10 13 15 15 16 15 14 10 10 13 15 16 17 16 17 17 18 17 18 18 19 11 10148 11 41 18 19 11 10148 13 14 14 19 11 10148 13 14 15 10 12 14 15 15 11 14 14 14 15 15 12 15 15 13 14 15 15 13 14 15 15 13 15 14 15 15 15 15 15 17 17 16 17 18 18 17 18 19 19 19 18 19 19 19 19 19 10 11 10 10 12 14 15 15 11 14 15 15 17 12 13 13 14 15 15 17 14 15 15 17 15 17 17 17 18 17 17 18 19 19 19 19 11 11 11 10 12 14 15 15 11 11 11 11 12 13 14 15 15 13 14 15 15 17 14 15 17 17 15 17 17 17 18 17 18 18 19 19 19 19 11 11 11 10 11 11 11 10 12 13 11 11 11 11 11 11	AA980366 vitronectin	1.1	1.5	1.3	1,1	-1.1	2.20876-	1.2	-2.9	-1.1	-1.3	-1.4	-1.3
1, 1, 1, 1, 1, 1, 1, 1,	AA245687 orosomucoid 2	1.3	-1.4	1,5	-1.8		-1.70975~	-1,6	3.0		-1.2	1.4	-1.6
10 11 13 14 11 125 15 15 20 23 12 11 14 11 1750 12 21 13 12 13 15 11 11 13659 12 31 11 13 12 13 12 13 12 13 34 10 14 15 14 15 16 17059 12 31 11 15 17 18 19 19 11 10114 13 34 10 17 18 18 10 11 20006 22 36 10 18 19 11 11 11 11 11 11	AA014727 tumor-suppressing subchromosomal transferable fragment 3	-2.1	1.1	8.5	-1.2		2.05235~	-1.8	-3.0	-2:1	-1.8	-2.9	-1.0
1,	AA546645 cell_division_cycle_2_homolog_(Spombe)-like_2	-2.1	-1.1	1.3	1.4	l	2.3	-1.5	-3.0	-2.3		-2.4	4.1-
12 12 15 11 15 11 13 12 12 31 11 11 11	AA176045 forkhead_box_C2	-2.5	1.1	1.4	1.4			-1.7	-3.0	-2.3	-1.6	-2.5	-1.1
13 12 15 16 17956 12 171 111 111 112 112 112 112 112 113 122 113 122 113 122 113 122 113 122 113 122 113 122 113 122 110 1	W33918 serine (or cysteine) proteinase inhibitor, clade F (alpha- 2 antiplasmin, pigment epithelium derived (actor), member 2	***	-1.1	1.5	-1.1		-1.36639~	1.2	-3.1	1.1	1.4	-1.6	-2.2
1.0 1.0 1.0 1.1 1.1 1.0	Al326560_complement_component_factor_i	1.3	-1.2	1,7				1.2	-3.1	1.	-1.0	-1.5	-1.1
1.0	AA771229 ESTs, Weakly similar to zinc finger protein 95 [M.musculus]	-2.4	1.2	1.3	1.2		1,71154	-2.0	.3 3.3	-2.2	-1.4	-2.4	-1.4
14 15 14 17 10114- 1.3 3.4 1.0 1.1 240206- 2.2 3.6 1.0 1.1 240206- 2.2 3.6 1.0 1.1 240206- 2.2 3.6 1.0 1.1 240206- 2.2 3.6 1.0 1.2 1.2 1.2 1.4 1.4 1.1 1.9 3.7 1.1 1.3 1.2 1.2 1.1 1.9 3.7 1.1 1.1 1.1 1.1 1.1 3.9 1.1 1.1 1.1 1.1 1.1 3.9 1.1 1.1 1.1 1.1 1.2 1.2 1.2 1.1 1	AA821932_small_induclble_cytokine_A6	1.0	-1.0	1.6	-1.6		1.2	-1.3	-3.4	-1.2	1.3	о. С	-1.7
11 16 13 10 11 240206 2.2 3.6 1.0 1.1 2.40206 1.2 2.8 1.1 2.7 2.1 1.2 1.2 1.2 1.4 1.5 27.4139 1.1 3.7 2.1 1.1 1.3 1.2 1.2 1.1 1.3 1.1 1.1 2.9 1.1 1.3 1.2 1.2 1.2 1.1 1.3 1.1 1.1 2.9 1.1 1.1 1.2 1.2 1.2 1.2 1.1 1.1 1.2 1.2 1.2 1.1 1.1 1.1 1.2 1.2 1.2 1.1	AA212714 murinoglobulin 2	1.4	-1.5	1.4	-1.4		1.0114~	-1.3	-3.4	-1.0	1.2	1.5	1.4
12 12 18 14 15 274/39 11 37 211 12 1.7 1.3 1.4 1.7 1.9 1.9 3.7 1.1 1.3 1.2 1.2 1.5 1.4 1.4 1.1 3.9 1.1 1.5 1.2 1.2 1.2 3.9 1.1 1.1 1.8 1.3 1.2 1.2 1.2 3.9 1.1 1.1 1.8 1.3 1.2 1.2 3.9 1.1 1.2 1.3 1.2 1.2 3.9 1.1 1.2 1.3 1.2 1.2 3.9 1.1 1.2 1.3 1.5 1.3 1.6 1.2 1.3 1.6 1.2 1.3 1.6 1.2 1.3 1.6 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0	AA106793_plasminogen	1.1	-1.6	1.3	1.0		2.40205-	-2.2	-3.6	1.0	1.0	-1.4	-1.1
1.2 1.7 1.3 1.4 1.7 1.4 1.7 1.5 1.1 1.9 3.7 1.1 1.3 1.2 1.2 1.2 1.3 1.1 1.5 1.1 1.5 1.2 1.2 1.2 1.3 1.1 1.2 1.2 1.2 1.3 1.1 1.1 1.2 1.2 1.3 1.1 1.2 1.2 1.3 1.1 1.2 1.0 1.0 1.2 1.2 1.3 1.1 1.2 1.0 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	AA474336_synaptonemal_complex_protein_3	-2.8	1.2	2.8	1.4		£741334	1.1	3.7	-2:1	-1.4	-2.3	-1.3
1.3	AI893895_cytochrome_P450,_2d9	1.2	-1.7	1.3	-1.4		1.1	-1.9	-3.7	1.	-1.0	1.1	1.1
15 12 15 14 13 12 12 39 1.1 18 1.2 1.4 1.2 1.3 1.64866- 1.8 4.2 1.0 1.2 1.3 1.5 1.3 1.64866- 1.8 4.2 1.4 1.2 1.3 1.5 1.3 1.64866- 1.8 4.2 1.4 1.2 1.3 1.5 1.1 1.2 1.0609- 1.2 4.2 1.0 1.4 1.3 1.2 1.4 1.0 1.65106- 1.0 4.3 1.0 1.5 1.4 1.0 1.2 1.1 1.1 1.0748- 1.1 4.5 1.1 1.5 1.4 1.0 1.0 1.1 1.65438- 1.1 4.6 1.3 1.5 1.4 1.0 1.0 1.3 1.5 1.4 4.7 1.3 1.5 1.4 1.2 1.1 1.4 1.1 5.1 1.4 1.1 1.4 1.1 1.4 1.1 5.1 1.4 1.2 1.4 1.2 1.2 1.3 1.6 1.3 5.1 5.1 1.3 1.4 1.5 1.5 1.3 1.5 1.3 5.1 1.3 5.1 1.3 1.4 1.5 1.5 1.4 1.5 1.5 1.3 1.4 5.1 1.3 5.0 1.1 1.5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	AA822002_cytochrome_P450,_2c40	1.3	-1.2			1.4	1.4	1.1	6.67	4.1	-1.2	-1.3	-1.2
18	-2 related sequence	1.5	-1.2		1.4		1.2	1.2	9.5	-	-1.1	1.1	1.
1,	W14912 kallikrein binding protein	1,6	-1.7	1.5	-1.4	-1.2	-1.3	1.2	4.0	-1.0	1.0	-1.1	-1.2
1.2 1.3 1.5 1.1 1.2 1.00609 1.2 4.2 1.0 2.5 1.8 20 1.2 2.3 2.2 1.0 4.2 1.9 1.4 1.3 1.2 1.4 1.0 1.65106 1.0 4.3 1.0 1.1 1.1 1.2 1.1 1.1 1.07489 1.1 4.6 1.3 1.2 1.4 1.0 1.1 1.1 1.1 1.07489 1.1 4.6 1.3 1.5 1.4 1.0 1.0 1.1 1.62438 1.1 4.7 1.3 1.5 1.4 1.0 1.0 1.1 1.5 1.3 1.5 1.1 1.1 1.1 1.4 1.2 1.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	Al117779_orosomucoid_1	1.1	-1.8	1.3	-1.5	-1.3	-1.64866~	-1.8	4.2	4.1-	-1.2	1.2	-1.5
1.5 1.8 1.2 2.3 2.6 1.0 4.2 1.9 1.4 -1.3 -1.2 -1.4 -1.0 -1.65106** 1.0 4.3 1.0 1.5 -1.0 1.2 -1.0 1.3 1.47097** -1.4 4.5 -1.1 1.5 -1.4 1.0 1.1 1.07488** 1.1 4.6 -1.3 1.5 -1.4 1.0 1.0 1.3 1.5 -1.4 5.1 1.2 1.5 -1.4 1.0 1.0 1.3 1.5 1.3 -1.1 5.1 -1.4 1.5 -1.5 1.4 -1.2 -1.2 2.76387** -1.3 5.1 -1.3 1.5 -1.4 1.5 1.5 1.3 2.1 5.2 1.3 1.5 -1.1 1.2 1.4 1.1 -2.1 5.2 1.3 1.5 -1.1 1.2 1.4 1.5 1.3 4.03787* -1.4 5.8 -1.2 1.5 -1.1 1.5 1.5 1.5 1.3 4.4 5.8 -1.2 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 -1.1 1.5	AA388066_regucalcin	1.2	-1.3		-1.1	1.2		-1.2	4.2	1.0	1.0	1.1	-1.2
1,4 1,3 1,2 1,4 1,0 1,65106× 1,0 4,3 1,0 1,2 1,0 1,3 1,47097~ 1,4 4,5 1,1	AA024217 Public domain_EST	-2.5	1.8		1.2		2.2	-1.0	4.2	1.9	-1.2	-2.3	1
12 1.0 1.2 1.0 1.3 1.47097 1.4 4.5 1.11 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	AA261401_serum_amyloid_P-component	1.4	-1.3	-1.2	-1.4	6.	-1.65106≈	1.0	4.3	1.0	1.1	1.0	1.3
1.1 1.1 1.2 1.1 1.1 1.0 1.1 4.6 1.3 mig at Los Angeles 3 -1.0 -1.4 1.0 1.0 1.3 1.5 -1.4 -5.1 1.2 mig at Los Angeles 3 -1.0 -1.5 -1.6 1.3 -1.5 1.3 -1.1 -5.1 1.4 1.1 -1.5 -1.5 -1.2 -1.2 -1.2 -1.2 -1.1 -5.1 -1.3 1.1 -1.4 -1.2 -1.2 -1.2 -1.2 -1.2 -5.2 -1.3 -3.2 -1.4 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.1 -1.1 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -5.2 -1.3 -1.1 -1.2 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.1 -1.2 -1.4 -1.5 -1.4 -5.6 -3.0 -1.2 -1.2 -1.1 -1.2 -1.4 -1.2 -1.4 -5.6 -3.0 -1.3 -1.3 -1.4 -1.5 -1.4 -5.6 -1.2 -1.2 -1.2 -1.4 -1.5 -1.4 <	AA016788_ESTs, Moderately_similar_to_Edp1_protein_[M.musculus]	1.2	-1.0	1.2	-1.0	1.3	1.47097~	-1.4	4,5	-1:1	-1.6	-1.1	-1.3
1.3 1.3 2.0 1.0 1.1 1.62438 1.1 4.7 1.3 1.5 1.4 5.1 1.2 1.4 1.0 1.0 1.3 1.5 1.4 5.1 1.2 1.4 1.0 1.0 1.3 1.5 1.5 1.4 5.1 1.2 1.4 1.5 1.5 1.3 1.1 5.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.3 5.1 1.3 5.1 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.5 1.3 1.5 1.5 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	W34349_coagulation_factor_XII_(Hageman_factor)	1.1	1.1	1.2	1.1	1.1	1.07468~	1.1	4.6	-1.3	-1.1	-1.2	1.2
nnia at Los Angeles 3 -1.4 1.0 1.0 1.0 1.3 1.5 1.4 5.1 1.2 -1.0 -1.5 -1.6 -1.6 -1.7 -1.7 -1.7 -1.1 -5.1 -1.4 -1.5 -1.5 -1.2 -1.2 -1.2 -1.2 -1.2 -1.3 -5.1 -1.3 -3.2 -1.4 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.3 -5.2 -1.3 -1.1 -1.1 -1.2 -1.4 -1.5 -1.4 <t< td=""><td>AA272831_betaine-homocysteine_methyltransferase</td><td>1.3</td><td>-1.3</td><td>2.0 -</td><td>-1.0</td><td>1-1</td><td>-1.62438~</td><td>1.1</td><td>4.7</td><td>1.3</td><td>-1.3</td><td>1.2</td><td></td></t<>	AA272831_betaine-homocysteine_methyltransferase	1.3	-1.3	2.0 -	-1.0	1-1	-1.62438~	1.1	4.7	1.3	-1.3	1.2	
nnie at Los Angeles 3 -1.0 -1.5 1.4 -1.2 -1.5 1.3 -1.1 -5.1 -1.4 1.5 -1.5 -1.5 -1.2 -1.2 -1.2 -1.2 -1.3 -5.1 -1.3 1.1 -1.4 -1.5 -1.5 -1.5 -1.5 -1.5 -1.3 -5.2 -1.3 1.2 -1.1 -1.5 -1.5 -1.4 -1.5 -1.5 -1.5 -1.5 -1.3 -5.6 -3.0 1.3 -1.3 -1.3 -1.4 -1.4 -1.4 -1.5 -1.4 -5.8 -1.2 1.2 -1.4 -1.4 -1.4 -1.5 -1.4 -1.5 -1.7 -1.7 -1.7 1.2 -1.4 -1.5 -1.4 -1.5 -1.5 -1.7	AA822029_group_specific_component	1.5	4.1-	1.0	1.0		1.5	-1.4	-5.1	1.2	1.2	-1.1	-
1.5	Angeles	-1.0	-1.5	1.56257*	1.3	ιςį	1.3	-1.1	-Ç-	-14	-1.2	-1.2	-1.5
1,1 1,4 1,2 1,1 1,4 1,1 2,1 -6,2 1,3 1,3 1,4 1,5 1,3 1,4 1,3 1,4 1,5 1,5 1,5	Al466451 fatty_acid_binding_protein_1, liver	-1.5	-1.5	1.4		۲,	12,7605-	-1.3	-5.1		-1.2	-1.3	-1.2
1.5 1.5	AA771396_4-hydroxyphenylpyruvic_acid_dioxygenase	1.1	-1.4	1.2	1.1		1.1	-2.1	5.2	1.3	-1.2	1.1	1.5
In 2 4.7 4.1 1.2 1.4 1.3 4.1 4.2 8.8 4.2 In H 1.3 4.3 1.4 1.4 1.2 7.7 1.3 1.2 1.3 1.4 1.5 1.4 1.5 1.0 -7.7 1.3 1.2 1.3 1.5 1.4 1.5 1.4 1.7 1.7 1.0	AA189266_ESTs	-3.2	1.4	1.5	1.5		1,100	-1.3	-5.6	-3.0	-1.8	-3.9	4.1
in H 1.3 1.3 1.4 1.4 1.2 175080 1.0 1.7.1 1.3	AA670733_murinoglobulin_2		-1.1	1.2	1.4		1,83,81	-1.4	-5.8 -	-1.2	1.0	1.1	-1.2
1.0 1.1 1.5 1.14 1.58677 1.3 1.77 1.10	AA980395 apolipoprolein H	1.3	-1.3	4.1	1.4	1.2	+ 7.FBBG-	-1.0	-7.1	1.3	1.2	1.1	
1.2 1.3 1.30027 1.30 1.30027 1.30	AA822116_transthyretin	1.2	-1.1	1.5	-1.5	4.1-	1.55627~	-1.3	77	-1.0	1.1	-2.0	9.

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AADREREZ BIKEN JUNA 3010002H13 Gene	1.3	-1.1	1.0	1.1	-2.0	1.48546~	1.4	-7.9	-1.1	-1.1	-1.7	-1.2
WEATON ATDOO CI++ transporting beta polygentide	1.2	-2.1	1.1	-1.0	1.2	1.3	2.9	-7.9	1.1	-1.1	-1.1	1.2
AA675398 minionalchulin 1		1.5	1.1	1.0	1.0	2*5483	-1.8	6.2-	-1.1	-1.1	1.3	1.0
AA647336 cytochrome P450, steroid inducible 3a11		-1.4		1.1	2.2		-1.3	8.0	-1.0	-1.1	1.2	1.1
	-1.9	-1.5	1.1	-2.4		2.4	-1,9	-9.0	-1.2	-2.1	-2.5	-1.6
AA088307 aloha-9-macroolohulin	1.3	-1,4	1.0	1.1	1.2	1.52434~	1.1	-10.5	-1.1	-1.7	1.3	-1.2
		-1.2	-1.1	1.2	1.1	2.38588~	-1.6	-11.1	1.2	-1.6	-1.3	1.2
as 1-5	1:	-1.7	1.2	-1.3	-1.3	-1.1	-1.5	-14.7	-1.2	-1.1	4.1-	-1.5
		-1.6	1.4	-1.5	-1.5	-1.11273~	-1.3	-15.2	-1.4	-1.4	-1.5	-1.8
	-	-1.1	-5.01013*	-2.7	1.0	1.09942~	1,5	-16,7	-1.5	1.6	-1.6	-1.4
o_CO8A_HUMAN_COMPLEMENT_COMPONENT_C8 .sapiens		-1.7	2.2	-1.0	1.1	2.007.88	-1.88	-20.2	-1.5	-1.3	4.1-	-2.7
AA822027 ATDess Cut+ transporting beta polyneptide	1.2	1.9	1.2	4.1-	-1.0	1.17594~	-1.2	-21.9	-1.5	7.5	1.8	-1.7
		1.7	2.0	- -	1.1	1.68348~	-1.3	-23.1	4.1-	-1.5	-1.3	-2.9
1	-1.1	-2.4	-28.7649*	-7.8	-1.1	1.43224~	-1.3	-71.1	-1.6	-2.2	1.1	-1.2

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brain	lds	panc)i	stom	int	col	. j	lung	blad	kidn	pl/ut r	mam
Description	PL. 48 BDEnor	PL. 28 BDEnor	PL- 6B_BDEnor	PL- 8B_BDEnor	PL- 3B_BDEnor	PL-5B_BDEnor	PL. 1B_BDE	18_BDE PL- or nor 78_BDEnor	PL- 9B_BDEnor	PL- 10B_BDEnor	PL- PDEnor 118_BDEnor 1	PL- 12B_BDEnor
AA066763_nemoglobin_beta_adul_major_chain			T	4.0	1.1	4.2	3.8	-1.1	-1.3	1.5	-1.8	-2.0
W16809_hemoglobin_bota_adult_major_chain	1.5	-1.2	1.2	-2.9	1.3	-3.7	3.4	-1.2	-1.0		-1.7	-1.6
W14953 kinusin-eascelated_protein_3	-1.0	-1.0	1.4	3.2	-1.2	-3.9332~	3.3	-1.2	-1.2	1.3	-1.5	-1.5
AA106071 hemoglobin, beta adult major chain	1.3	4.1-	1.2	-3.0	-1.1	4.3	3.2	1.1	-1,3	81	-1.7	-2.0
AIG14738 FIKEN CDNA 2610301115 gone	1.3	2.07881+	1.1		1.5	1.2409+~	2.8	1.4	1.5	1.8	1.5	1.6
A1447967_ESTs	1.1	Ę	1.0557+	25	£8989†	-1.08065+~	2.8	1.6			2,1	
A651391 ESTS, Weakly similar to PV1 MOUSE FRIEND VIRUS BU SCEPTIBILITY PROTEIN 1 [4.musculus]	1.2	171031+	-1.05799+	27		1,69433+~	2.5	1.67593+	1.8	1.5	18	1.8
AA289886 protein kinase C. beta	-1.5	1.2	-1,6	1.3	1.1	-1.16438+~	2.4	1.01996+	-1.1	-1,1	1.1	1.1
AA821884 amylase 2, pancreatic	3.1	1.	-1.2	-2.8	-32.0	4.0	2.3	-1.2	-4.4	-1.1	-1.1	-1.2
AA588976_ESTs	1.1	(.8		2.6	1.7	1.17361+~	23	1,88863+	1.7	1.4	1.9	2.1
W57281_Mest-linked_imprinted_transcript_1	1.3	1.2	1.1	1.3	1.1	-1.43302+~	82	1.5	1.4	1.1	12	1.2
A1549687 RIKEN cDNA_5730406115_gene	1.3	(7)	-1.0	1.1	-1.0	1.01531+	23 1.0	1.0	1.1	1.3	1.1	1.1
AA002994_ESTs,_Moderately_similar_to_No_similarties_to_any_reported_protein s_[H.sapiens]	1.1	1.0	-1.3	2.6	-1.1	-1,28021+~	. cy	1.0	-1.2	1.2	-1.2	-1.0
AI528513_ESTsModerately_similar_lo_F26L_MOUSE_6PF-2-K/FRU-2,6- P2ASE_LIVER_ISOZYME_[M.musculus]	-1.2	1.1	1.1	-1.6	Ξ	2.6	. 44	1.3	1.	4.4	-1.3	-1.3
Al605734 septin_3	1.0	-1.4	1.0		-1.7	1.78C?~	2.1	1.2	1.1	-1.2	1.3	1.1
AI464603 RIKEN cDNA 0710001E13 gene	1.1	1,1	1.0		1.4	-1.08185+~	2.1	1.08953+	1.4	1.2	1.4	1.4
AA717025_Mus_musculus_10_day_old_male_pancreas_cDNA_RIKEN_full- length_enriched_library, clone:1810009A17, full_insert_sequence	1.8	1.1	-1.2	2.7	-25,5	-5.2	i F	-1,6	-2.9	1.2	-1.1	-1.4
AA117355_RIKEN_cDNA_1190006L01_gene	-1.0	1.6	-1.0	1.7	1.0	1.23278+~	2.1	1.2	1.2	-1.0	1.3	1.4
AA267673_ESTs	-1.18124+	1.5	1.37787+	1.3	1.2	-1.28358+~		1.15552+	1.1	1.3	1.2	1.2
AI594945_RIKEN_cDNA_6330406P08_gene	1.05631+	1.20985+	-1.07584+	1.2	1.09763+	-1.02044+~		-1.01366+	-1.02153+	1.4	-1.1	1.0976+
AA119984_liver-specific_bHLH-ZIp_transcription_factor	1.5	1.3	1.0		1.5	1.31112~		1.1	1.2	1.4	1.1	1:1
AA522311 RIKEN_CDNA_0610038P07_gene	1.2	1.7	-1.1		1.2	-1.08749+~	Ē	1.3	•	1.4	1,5	1.5
AA967857_brain_protein	1.0	-1.0	-1.1		-1.5	1.00533~		1.1	1.0	-1.5	1,2	1.1
AA253844_ESTs	1.4	1.3	1.0	, B	<u>+</u>	-1.54029-		1.3	1,48945*	1.2	1.4	1.24284*
AI122516_microtubule-associated_protein_6	1.1	1.0	-1.6		1,4	1.28645+-	-5	1.1-	1.0	-1.1	-1.2	-1.1
A1430438 RIKEN CDNA 3110023G01 gene	1.0	1.2	-1.4	8	1.5	1.609874-	20.2		-1.0	1.1	1.1	-1.0
Al550596_stearoyl-Coenzyme_A_desaturase_2	4.1	1.2	-1.3	2.1	1.4	-1,5	2.0		1.5	1.2	1.4	1.3

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Highly, similar to, Seat Paragraphic prospholipses D1	- AA2000457 ESTs	4	12	9,7	7.7	1.19151	1.03839+~	20.2	-1.2	4.1	1.1	-1.3	-1.1
1,4 1,0 1,5 1,3 1,1 1,10637+ 20, 1,1 1,0 1,12 1,0 1,1 1,0 1,1 1,0 1,1 1,0 1,1 1,0 1,1 1,0 1,1 1,0 1,1 1,1 1,0 1,1 1,1 1,0 1,1 1,1 1,0 1,1 1,1 1,1 1,0 1,1	ulphosphatidylinositol specific phospholipase D1								-1.2	-1.3	1.2	-1.6	-1.6
1.1 1.0 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.0 1.1 1.1 1.0 1.1 1.1 1.0 1.1 1.1 1.0 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.0 1.0 1.0 1.0 1.1 1.0 1.0 1.0 1.0 1.0 1.1 1.0						1.1			-1.2	-1.3	1.0	-1.4	11
1,27136+ 1,56185+ 1,02182+ 22	OG protein [H.sapiens]								1.3	÷.	-1.0	-1.1	-1.2
12 14 13 20 15 15 15 15 15 15 15 1		П							1.50959+	1.3697+	1,62061+	2.24475+	1,7053+
14 19 10 23 14 1.20027- 1.90028- 1.20028- 1.90028- 1.20028- 1.90028- 1.20028- 1.90028- 1.20028- 1.90028- 1.20028- 1.90028- 1.20028- 1.90028-									1.4	1.4	1.2	1.5	1.6
1, subfamily Q, member 2								1,0	4.7	1.6	1.4	8.1	1.5
1.2 1.3 1.1 3.8 1.5 1.0		+				1.71234+	1.50089+~		-1.0726+	1.10775+	-1.1	-1.21672+	-1.20296+
1,14965+ -1,05364+ 1,39658+ 1,1 1,06955+ 1,18682+ 1,5 1,5 1,0								67	1.5	1.6	1.3	1.5	1,6
10 -1.1378+ 1.02861+ 1.2 2.4 -1.18147+ 1.8 1.8 1.02861+ 1.2 1.2 1.4 1.4 1.4 1.4 1.5 1.		П	-1.05364+				ı 1	30	1.18474+	1,1	1.2	1.1	-1.1
10 1.16406+ 1.12936+ 1.34774+ 1.147864- 1.147865- 1.147865- 1.147865- 1.147865- 1.147865- 1.147865- 1.147865- 1.147865- 1.147865- 1.147865- 1.147865- 1.147865- 1.147865- 1.14886- 1.18888- 1.14886- 1.18888- 1.14886- 1.18888- 1.14886- 1.18888- 1.14886- 1.18888- 1.14886- 1.188888- 1.188888- 1.188888- 1.188888- 1.188888- 1.188888- 1.188888- 1.188							- 1	2	1.03478+	1.2	1.3	1.1	-1.33715+
1.0 1.0 1.1 1.9 1.4 1.16793- 1.9 1.9 1.1 1.16793- 1.9 1.9 1.0	related factor 2			1.12995+					1.03133+	-1.14619+	1.0	1.0	-1.0
1,08986+ 1,2				-1.1					1.1	1.1	1.1	1.2	1.2
126047+ 1162577+ 1.04077+ 198417+ 1,68234+ 1.32632+- 1.8 1.2			1.2	-1.0032+			-1.04633+~	6	1.00503+	-1.1	1.0	4.1	1.2
e_femily			377+	-1.04077+		50. 2	1.32632+~		1.37534+	1.4	1.5	1.4	1.39535+
AS oncogene family -1.1 1.1 1.3 1.1 1.6 1.6 1.6 1.6 1.6 1.8 1.6 1.6 1.8 1.6 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.9 1.3 1.4 1.3 1.9 1.3 1.4 1.3 1.4 1.3 1.9 1.3 1.4 1.3 1.9 1.3 1.4 1.3 1.9 1.3 1.4 1.3 1.4 1.3 1.9<				1.0			20582+~	6.4	6.	.9	4.	2.1	4.7
1.1 1.3 1.6 1.6 1.6 1.6 1.1 1.3 1.6 1.6 1.3 1.6 1.3 1.6 1.3 1.6 1.3 1.6 1.3 1.6 1.3 1.6 1.3 1.6 1.3 1.6 1.3 1.6 1.3 1.6 1.3 1.6 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.5 1.5 1.3 1.4 1.5 1.5 1.3 1.4 1.5				-1.3		1.6	-1.6533+~		1.0	-1.2	-1.1	4.1	1.0
1.6 -1.1 -1.55245 -1.2 1.0 -1.369634- 1.9 -1.307744- 1.9 -1.307744- 1.9 -1.307744- 1.0 -1.307744- 1.0 -1.307744- 1.0 -1.307744- 1.0 -1.307744- 1.0 -1.307744- 1.0 -1.307744- 1.0 -1.2 1.0 -1.2 1.0 -1.2 1.0 -1.2 1.0 -1.2 1.0 -1.2 1.0 -1.2 1.0 -1.3 -1.7 -1.2 1.0 -1.3 -1.7 -1.2 1.0 -1.3 -1.7 -1.2 1.0 -1.3 -1.2 1.0 -1.3 -1.3 -1.7 -1.2 1.0 -1.3 -1.3 -1.1 -1.3 -1.3 -1.1 -1.3 -1.3 -1.1 -1.3 -1	a. member RAS oncodene family			-1.6				20000	1.3	1.2	1.3	1.2	1.4
1.2 1.4 1.2 1.5 1.4 1.5 1.4 1.5 1.4 1.6536+ 1.5 1.6536+ 1.5 1.6536+ 1.5 1.6536+ 1.5 1.6536+ 1.5 1.6536+ 1.5 1.6536+ 1.5 1.6536+ 1.5 1.6536+ 1.5 1.6536+ 1.5 1.5 1.7 1.1 1.5			-1.1						1.0	-1.3	1.2	-1.1	-1.3
12 15 14 82 1.5 1.075+ PD-				-1.2			7	1500	1.1	-1.1	1.1	1.0	1.2
-1,00111+ -1,05949+ 1,039+ 1,1 1,0627+ 1,0536+- 2 -1,2 1,0 1,1 -1,5 -1,7 -1,14349- -1,9 1,2 -1,2 -1,5 -1,7 -1,2 1,0 -1,9 1,0 1,3 -1,4 -1,2 1,0 -1,9 -1,9 -1,0 -1,3 -1,7 -1,2 1,1 -1,9 -1,9 -1,0 -1,3 -1,1 -7,7 -1,2 1,1 -1,9 -1,9 -1,5 1,1 -2,4 2,4 -1,9 -1,9 -1,1 1,0 1,2 1,0 -1,0 -1,9 -1,9 -1,1 1,0 1,2 1,0 -1,0 1,1 -1,9 -1,1 -1,2 1,1 -1,0 1,1 -1,9 -1,9 -1,1 -1,2 1,1 -1,0 -1,0 1,1 -1,9 -1,1 -1,3 1,1 -1,0 -1,0 1,1				-1.4				Name P	1.6	1.7	1.2	1.5	1.8
-1.2 1.0 1.1 -1.5 -1.7 -1.14349- -1.9								4255	-1.02885+	1.1	1.4	1.1	1.0
12 -1.2 -1.5 -1.7 -1.2 1.0 -1.9 -1.9 1.2 1.0 -1.9 -1.9 1.2 1.0 -1.0 -1.9 1.3 -1.4 1.7 1.1 -1.9 -1.0 -1.0 -1.0 -1.0 -1.9 -1.9 -1.1 -1.2 -1.1 -1.2 -1.1 -1.9 -1.1 -1.9 -1.0						V 1			-1.1	-1.1	-1.1	-1.0	-1.1
1.2									1.2	-1.1	-1.0	1.1	-1.5
1.0 1.3 1.1 -1.2 1.0 -1.0 -1.9 -1.9 -1.5 -1.2 1.1 -1.2 1.1 -1.9 -1.5 -1.5 -1.1 -1.9 -1.5			-						-3.7	1.1	-1.0	1.	1.1
-1.2 -1.4 -1.3 -1.7 -1.2 1.1 11.9 -1.0 -1.3 -1.1 1.7 2.0 2.2 -1.9 -1.9 -1.5 1.1 -2.4 2.4 -1.9 -1.1 1.0 1.2 1.0 1.1 -1.9 -1.1 -1.7 1.2 1.1 -1.9 -1.19 1.2 -1.42323+ -1.16278+ -1.4 -1.9 -1.16394- -1.9								18 T	-1.2	1.0	-1.0	-1.1	-1.2
-1.0 -1.3 -1.1 7 20° 22 1.9 -1.9 -1.5 1.1 -2.4 2.4 -1.9 -1.1 1.0 1.2 1.0 -1.9 -1.1 -1.7 1.2 1.1 -1.9 1.1 -1.3 1.1 -1.9 -1.9 1.2 -1.4 -1.6278+ -1.4 -1.9 -1.16394- -1.9				-1.3		100000000000000000000000000000000000000		7	-1.0	-1.1	-1.3	1.0	-1.3
-1.9 -1.5 1.1 -2.4 2.4 2.4 -1.9 -1.1 1.0 1.2 1.0 1.1 1.9 -1.1 -1.7 1.2 1.1 2.9 1.9 1.1 -1.3 1.1 -1.2 1.1 1.36367~ -1.9 1.2 -1.42323+ -1.16278+ -1.4 -1.9 -1.16394~ -1.9				-1.1			23	1	1.3	1.2	-1.0	1.5	1.8
-1.1 1.0 1.2 1.0 -1.0 1.1 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9				1.1	-2.4				-9.0	-1.2	-2.1	-2.5	-1.6
1.1 -1.7 1.3 1.2 1.1 2.6967~ -1.9 1.1 1.36967~ -1.9 1.2 1.1 1.36967~ -1.9 1.2 1.1 1.36967~ -1.9 1.2 1.1 1.36967~ -1.9 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3							1.1		4.1	1.1	1.1	-1.1	1.1
1.1 -1.3 1.1 -1.2 -1.1 1.36967~ -1.1 -1.36967~ -1.1 -1.36967~ -1.1 -1.36967~ -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.			1 . 1 .		·			- 1	-1.3	-2.1	1.4	-1.2	-1.3
1.2 -1.42323+ -1.16278+ -1.4 -1.9 -1.163941.19				1.1		-1.1	1.36967~	-	1.1	1.0	-1.0	-1.1	-1.0
		1.2	-1.42323+		4.1-	19	-1.16394~		1.2	1.17519+	-1.1	1.0	-1.4
AA792001 RIKEN cDNA 4931400A14 gene -1.3 1.2 1.1 -1.2 -1.08494+- 1.9 1.1				1.1		-1.2		6.1	1.1	-1.0	1.0	1.0	1.1
. 1.1								1,9	-1.1	1.0	-1.3	-1.1	-1.2

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AA792268 solute carrier family 4 (anion exchanger), member 1	1.0	-1.5	1,1	1.1	-1.1	1.2	-1.9	-1.5	-1.1	-1.2	-1,6	-1.7
W53917 serine hydroxymethyl transferase 1 (soluble)	1.0	-1,1	1.3	1.1	-1.1	-1.6	-1.9	-1.2	1.1	-1.2	1.0	-1.1
	-1,06043+	-1,40465+	-1.02444+	1.02571+	-1.14202+		-18	1.2	-1.12881+	-1.0	-1.07024+	1.06265+
AA096815 Public domain EST	1.2	-1.3	1.2	1,5	1.2	2.22007	1.9	-1.2	1.3	20.0	1.0	1.4
W80245 ESTs	-1.2	1.4	-1,1	-1.4	-1.3	1,3	6.1	-1.5	-1.2	-1,3	-1.2	1.0
AI551578 RIKEN cDNA 1600013P15 gene	-1.3	-1.4	1.3	1.0	-(B	1,70227-	- 6,1-	-1.1	-1.0	-1.2	1.0	1.0
AA880295 immunoalobuiin toinina chain	1.2	-1.5	4.1-		-2.2		-1.9	-1.1	1.3	1.5	1.4	-1.3
AA871838 phospholipase A2, group IIA (platelets, synovial fluid)	-1.1	-1.0	-1.2		2.8	1,9	-1.9	-1,3	1.5	1.2	1.3	
(AI529474 carbohydrate (N-acetylglucosamine 6-0) sulfotransferase 5	1.0	1,4	-1.1	1,3	1.2	1.07225+~	1.9	1.2	F. F.	1.0	1.0	1,1
AA277642 ESTs. Weakly similar to A53399 L6 anticen - mouse fM.musculus	-1.2	-1.1	4.4	-1.1	-1.3	3.61226	1.9	-1.1	1.1	1.2	1.1	17
AA667906 cysteine-rich protein 2	1.2	1.1		-1.6	-1.3	-1.3	1.9	-1,5	-1.2	1.1	-1.2	-1.3
AA444443 immunoglobulin heavy chain 6 (heavy chain of IgM)	-1.2	-1.8	-1.4	1.1	1.2	-2.1	-1.9	1.1	1.0	-1.0	1.2	1.0
AA065522 RIKEN cDNA 1700029G01 gene	-1.2	-1.4	-1.0	-1.1	-1.3	1.2	1.9	-1.2	-1.1	-1.1	-1.1	
AA656407 troponin T1, skeletal, slow	1.1	-1.2	1.3	-1.1	1.2	1,95435	-1.9	-1.1	-1.0	1.1	1.1	-1.5
W18463 thioether S-methyltransferase	1.0	-1.5	2.0	-1.3	8.		-1.9	-1.0	1.7	1,2	-1.0	-1.2
AA065551 Mus musculus, clone IMACE:3489758, mRNA, partial cds	-1.0	-1.2	1.2	1.1	1.1		1.9	-1.2	1.0	-1.2	1.0	4.0
AA571365 Mus_musculus_MRPS6_mRNA_for_mitochondrial_ribosomal_protein_S6, nartial_cds	-1.2	1.1		1,3	1.3	6.7	6 .	-2.2	-1.2	-1.0	-1.4	-7.3
AA146546_ESTs	-1.2	-1.4	-1.4	-1.5	-1.1	-1.03444~	9.1.	-1.1	-1.3	-1.2	-1.3	-1.2
AA028420 small proline-rich protein 1A	1,3	1.1-	-1.4	-1.5	6	-1.2	-1.9	-1.2	1.0	-1.1	1.3	1.3
AA718431 RIKEN cDNA 1700020B19 gene	1.0	-1.2	1.2	1.0	1.2	1.46773+~	6,	-1.2	-1.1	-1,1	-1.2	-1.3
AA109757 solute carrier family 22 (organic cation transporter)-like_2	-1.2	-1.0	-1.1	-1.3	-1.3	1.2	1.9	-1.0	-1.1	1.2	-1.1	4.1
Ai605613 RIKEN cDNA 2210401F01 gene	1.1	-1.2	1.1	-1.2	-1.7	1.4	6.1	1.8	4.0	-1.1	1.0	1.1
AA671284 troponin T2, cardiac	1.0	11	-1.3	-1.1	-1.2	-1.0	9.1	-1.6	1.1	1,4	-1.2	-1.2
Af644912_ESTs,_Weakty_similar_lo_A58583_testosterone-resistant_immunity-associated protein [AP38 - mouse [M.musculus]	-1.2	-1.2		-1.1	1.3	1.58425+-	-1.9	4,1	-1.2	-1,4	-1.1	4,1-
A1181090_cytochrome_P450,_subfamily_IV_B,_polypeptide_1	1.0	-1.4	-1.1	-1.1	1,1	1.9	9.	-1.2	-1.2	1.1	-1.1	-1.1
AA764455 Mus_musculus, clone_MGC:8241, mRNA, complete_cds	1.3	-1.4	-1.3	-1.5	-1.4	-1.32023+~	-1.9	1.2	-1.1	-1.1	-1,1	1.1
AA117605 cytotoxic granule-associated_RNA-binding_protein_1	1.3	-1.1	1.1	-1.0	1.1	-1.1	6,1-	1.0	-1.0	-1.2	1,0	-1.0
AA544749 myosin Ic	-1.1	-1.1	1.0	-1.2	-1.4	1.0	1.9	1:1	-1.1	1.0	-1.1	-1.2
AA754696 immunoglobulin heavy_chain 6_(heavy_chain_of_lgM)	1.8	-1.5	1.0	-1.2	-1.9	-3.2	91.9	-1.0	-1.2	-1.0	-1.1	-1.4
W53837_mitogen_activated_protein_kinase_13	1.0	1.1	-1.0	-1.2	-1.0	-1.5	-1.9	1.1	-1.0	1.1	-1.0	1.1
AA600430_myeloblastosis_oncogene-iike_2	1.1	-1.2	1.1	-1.1	-1.2	1.24314~	-2.0	-1.1	-1.1	-1.1	-1.3	1.0
AA982280 N-myc_(and_STAT)_interactor	-1.2	-1.2	1.5	1.0	-1.2	1.0219-	-2.0	-1.2	1,1	-1,3	-1.0	1.2
AA798953 transformation_related_protein_63	1.0	-1.5	-1.3	1.1	1.2	1.35161+~	-2.0	1.1	-1,2	-1.2	-1.0	-1.0
Al046576_testis_specific_gene_1	1.4	-1.3	-1.4	1.5	1.2	-1.05001~	-2.0	1.3	1.2	-1.1	1.5	£.6.
										*		

BRAIN

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AA004000 Mus CT 4 mDNA complete ode	4.0	10	1.3	1.1	1.1	1.76441+2.0	2.0	-1.2	-1.1	-1.3	-1.2	-1.1
	1 -	97	4.1	1.1	1.0	1,65959-	-2.0	-1.2	-3.0	-1.3	-1,3	-1.3
A545451 namma-nintamy transpendidase	0.1	4.1	-1.8	1.4	1.4		-2.0	-1.5	1.4	1.3	1.1	1.7
AA458072 adinovyte complement related motein of 30 kDa	1.3	-1.2	-1.0	-1.3	1.0	-2.4	-2.0	-1.1	-1.5	1.1	1.3	-1.5
A1047912_Mus_musculus_DNA_segment_Chr_1_Pasteur_Institute_1_(D1Pas1) mRNA	1.07563+	-1.57659+	-1.09024+	-1.13529+	-1.21199+	3604+	-2.0	1.15955+	1,30571+	-1.08385+	1,1837+	-1.0
Al385784 nleckstrin 2	1.1-	-1.1	-1.0	F1.2	1.1	-1.1	2.0	1.0	-1.1	-1.0	1.0	-1.1
AA671573 chemokine (C-C) receptor 5	1.0	-1.1	1,1	-1.5	4.1	-1.22865~	-2.0	-1.2	-1.4	-1.3	-1,1	1.0
W16358 mucin 1, transmembrane	1.5	1.4	-1.2	-2.2	-1.3	-1.1	-2.0	1.0	1.1	1.1	-1.2	1.0
ulator	-1.2	-1.25943+	-1.02071+	-1.01518+	-1.22397+	1.08155+~	-2.0	1.5	-1.0	-1.2	1.2	-1.2
AA711611 RIKEN cDNA 1110015E18 gene	1.0	-1.2	1.4	1.3	1.1	1,74148+~	-2.0	-1.2	1.1	-1.1	-1.3	-1.2
	-1.2	-1.7	-1.0	-1.2	-1.2	1.5	-2.0	8.	*0	-1.6	-1.2	-1.4
	-1.0	-1.0	1.3	-1.0	1.4	1.41103+~	-2.0	1.1	-1.0	-1.0	-1.4	1.1
nia	1.4	-1.6	-1.2	-1.1	-1.9	-2.7.	-2.0	-1.4	-1.3	1.4	-1.2	-2.3
	-1.3	-1.0	1.3	-1.2	-1.1	1.0	-2.0	-1.2	-1.2	-1.1	-1.1	-1.2
	-1.28447+	-1.28228+	1.1	1.4	-1.1	1.81198**	-2.0	-1.2	-1.3	-1.0	-1.2	-1.00617+
AA414490 RIKEN cDNA 1200014D15 gene	1.3	-1.4	1.4	-12	1.0	1.07353~	-2.0	-1.8	-1.1	-1.1	1.1	1.0
	1.1	-1.0	-1.0	1.0	-1.0	-1.2	-2.0	-1.1	1.1	1.1	1,1	1.1
AA771229 ESTs. Weakly similar to zinc finger protein 95 (M.musculus)	-2.4	1.2	1.3	1.2	1.2	1,7115-	-2.0	-3.3	-2.2	-1,4	-2.4	-1.4
AA760220 RIKEN cDNA 2300002G24 gene	1.1	-1.0	1.2	-1.1	1.3	223707-	-2.0	-1.3	-1.0	-1.1	-1.2	-1.1
Al385961 cAMP responsive element modulator	-1.1	-1.1	-1.0	1.1	1,2	1.66655-	-2.0	-1.2	-1.1	-1.0	-1.1	1.2
A1152670 ESTs	1.16788+	-1.54754+	-1.26954+	-1.39621+	-1.48435+	-1.01746+~	2.0	-1.03099+	1.06908+	1.1	1.1	-1.38695+
AA739040 lipoprotein lipase	1.1	-1.4	1.1	-1.3	-1.0	1.2	-2.0	1.1	-1.6	1.3	1.1	-1.3
AA004134 centromere autoantigen A	1.0	-1.1	1.2	1.1	1.1	1.1	-2.0	-1.6	-1.1	-1.2	-1.1	1.0
ne kinase	-1.4	1.08091+	1.5	1.2	1.0	16235	-2.0	-1.4	-1.0	-1.1	-1.3	1.0
	1.2	-1.3	-1.1	-1.2	-1.1	-1.36336+~	-2.0	1.2		1.1	1.2	1.1
AA756749 submaxillary gland androgen regulated protein 1	-1.1	-1.6	1.0	-1.3	-1.2	1.5	-2.0	1.3	22	-1.2	-1.2	-1.8
Al894035 proprotein convertase subtilisin/kexin_type_5	1.1	-1.49699+	-1.0	-1.2	1.3	1.43771+~	-2.0	-1.0	1.0	-1.2	1.1	-1.2
al_protein_M01G5.4	1.1	1.1	-1.3	1.1	1.2	1.19269+~	2.0	-1.0	-1.0	-1.1	1.1	-1.6
AA840053_actinin_alpha_2_associated_LIM_protein	1.1	-1.3	1.0	-1.3	1.1	1.0	-2.0	-1.0	-1.2	-1.4	-1,3	7.12
AA497592_ets_variant_gene_6_(TEL_oncogene)	-1,3	1.0	1.1	-1.1	1.2	1.1	20	-1.4	-1.4	-1.2	-1.3	1.1
	1.4	-16	-1.1	-2.1	1.3	1.41297~	5.0	-2.0	-2.2	3.55728** -1.0	1.0	1.3
AA517353_nuclear_factor_of_kappa_light_chain_gene_enhancer_in_B- cells inhibitor, alpha	-1.0	1.2	1.1	1.1	1.1	-1.2	2.0	-1.3	-1.2	-1.2	-1.2	-1.0
Ai120822_serine_(or_cysteine)_proteinase_inhibitor_clade_G_(C1_inhibitor),_me mber_1	1.1	-1.4	<u>-</u>	-1.5	1.2	-1.5	-2.0	-1.0	1.0	1.0	-1.0	-1.1

WO 03/058201

1.6 1.2 1.5							The second second						
1.0 1.05165+ 1.3 1.1 1.1 1.053144 2.0 1.2 1.1			1.2		1.5	1.5	3,33219++	-2.0	-2.4	-1.4	-1.6	-2.0	-1.3
1.0		-1.3	1.05115+	1.3	1.1	1.1	1.85314	-2.0	-1.2	1,1	1.0	-1.2	1.3
1.1 1.3 1.2 1.1 1.4 2.1 1.3 1.1 -1.6 -1.3 -1.2 -2.2 1.11232- -2.1 -2.0 1.1 -1.4 1.2 -1.2 -2.2 1.11232- -2.1 -2.0 1.1 -1.4 1.2 -1.4 -1.0 -2.1 -2.1 -2.0 1.1 -1.1 -1.4 -1.0 -1.2 -1.0434- -2.1 -1.3 1.0 -1.1 -1.2 -1.3 -1.3 1076+ -1.4 4.3 -1.1 1.2 -1.1 -1.2 -1.2 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1			-1.6	1.5	-1.0	1.3	1.30398~	-2.1	-1.4	7.1	-1.2	-1.0	-1.1
1.1 1.6 -1.3 -1.2 -1.1332- 2.1 2.0 1.1 -1.4 1.2 1.1 2.1 2.0 1.1 -1.4 1.2 1.1 2.1 5.2 -1.1 -1.4 1.2 1.0434- 2.1 5.2 1.0 -1.1 1.2 1.0434- 2.1 1.3 1.0 -1.1 1.3 1.1 1.1 1.1 1.0 -1.6 2.8 1.1 1.1 1.1 1.1 1.1 -1.6 1.1 1.3 1.2 1.2 1.1 1.1 -1.6 1.1 1.1 1.1 1.1 1.1 1.1 -1.6 1.1 1.0 1.1 2.1 1.1 1.1 -1.7 -1.2 1.28864 -1.2 1.1 1.1 1.1 -1.1 -1.2 1.0 1.1 1.1 1.1 1.1 1.1 -1.1 -1.2 -1.2	ster, C8 gene		-1.3	1.3	1.2	1.1	1.4	-2.1	-1.3	1.1	1.3	-1.1	1.0
1.1 1.4 1.2 1.1 2.1 5.2 1.1 1.4 1.2 1.0434- 2.1 1.3 1.0 1.1 1.1 1.1 1.1 2.1 1.3 1.0 1.1 1.1 1.2 1.0434- 2.1 1.3 1.0 1.1 1.1 1.1 1.1 2.1 2.1 1.3 1.0 1.1 1.2 1.1 1.2 1.2 1.1 2.1 1.1 1.1 1.4 1.1 1.3 1.2 1.2 1.2 1.1 2.1 1.1 1.1 1.5 1.1 1.1 1.0 1.1 2.1 1.1 1.0 1.10 5894- 2.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1			-1.6	-1.3	-1.2	-2.2	1.11232~	-2.1	-2.0	1.0	-1.2	0.	-1.6
1.1 1.4 1.0 1.2 1.0434- 2.1 1.3 1.01606+ 1.10477+ 1.08277+ 1.3 1.1 1.1 2.1 1.1 1.1 1.1 1.1 2.1 1.1			-1.4	1.2	1.1	1.4	1.1	-2.1	-5.2	1.3	-1.2	1.1	1.5
1.0 -1.1 1.1 -1.3 1.1 -1.1 2.1 -1.3 1.01606+ -1.10474+ 1.08277+ -1.3 -1.31076+ -1.49409+ -2.1 -1.11103+ 1.2 -1.6 2.8 1.1 1.3 1.2566* 2.1 1.2 1.1 -1.4 1.1 -1.3 -1.2 1.2 2.1 -1.1 -1.1 -1.5 1.1 1.0 1.1 2.1 -1.1 -1.2 -1.0 1.1 1.0 1.1 2.1 -1.1 -1.2 -1.0 1.1 1.0 1.1 2.1 1.1 1.0 1.1 1.0 1.0 -1.06554+ -2.1 1.1 1.1 1.4 1.1 1.0 1.0 -1.06554+ -2.1 1.1 1.1 1.4 1.1 1.0 1.0 1.0 1.1 -1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 <			-1.1	1.4	-1.0	1.2	1.0434~	-2.1	-1.3	-1.1	-1.3	-1.2	-1.4
1.01606+ -1.10471+ 1.08277+ -1.3 -1.31076+ -1.49409+- 2.1 -1.11103+ 1.2 -1.6 2.8 1.1 -1.2 1.2 2.1 -1.1 1.1 -1.4 1.1 -1.3 -1.2 1.23932- 2.1 -1.1 -1.1 -1.5 1.1 -1.1 -1.1 2.1 1.1 -1.2 -1.5 1.0 -1.65256+- 2.1 1.1 -1.2 -1.0 -1.5 -1.1 2.1 1.1 -1.0 1.10 -1.65256+- 2.1 1.1 -1.1 -1.5 -1.5 1.0 -1.65254 2.1 1.1 -1.1 -1.4 -1.1 -1.5 -1.1			-1.1		-1.3	1.1	-1.1	-2.1	-1.3	-1.2	-1.2	-1.2	-1.3
1.2 -1.6 2.8 1.1 1.3 1.72565- 2.1 1.2 1.1 1.1 1.1 1.2 1.2365- 2.1 1.1 1.1 1.1 1.2 1.2365- 2.1 1.1 1.1 1.0 1.1 2.1 1.			-1.10471+		-1.3	-1.31076+		-2.1	-1.11103+	1.5	1.1	1.29004+	1.11434+
1.1 -1.4 1.1 -1.3 -1.2 1.28932- 2.1 -1.1 1.1 -1.5 1.1 1.0 1.1 2.1 1.1 1.2 -1.0 -1.5 1.0 -1.66256+ 2.1 1.1 1.0 1.10 -1.56564+ -1.06631+ 2.1 1.1 1.1 1.4 -1.5 -1.1 1.1 1.1 1.2 1.3 1.1 1.0 1.66304+ 2.1 1.1 1.1 1.1 1.0 1.0 1.68304+ 2.1 1.1 1.1 1.1 1.0 1.6 1.3 2.1 1.1 1.1 1.1 1.2 1.1 1.4 2.1 1.1 1.1 1.1 1.2 1.2 1.0 1.06837+ 2.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1			-1.6		1.1	1.3	7.1	-2.1	1.2	-1.0	2:1	-1.1	-1.2
1.1 -1.5 1.1 -1.1 1.0 1.1 -2.1 1.1 1.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1			-1.4		-1.3			2.1	1.1	1.2	1.1	-1.0	1.1
-1.2 -1.5 -1.5 -1.0 -1.6255+ 2.1 -1.2 1.0 1.10758+ 1.0032+ -1.2916+ -1.5951+ -1.06635+ 2.1 -1.1 -1.1 1.4 1.1 -1.5 -1.1 -2.4752 2.1 -1.0 1.2 1.3 1.1 1.0 1.0 1.0 1.0 -1.1 -1.4 -1.3 1.2 1.0 1.0 1.0 1.1 -1.1 -1.1 -1.1 1.1 -1.2 1.0 1.3 2.1 1.1 -1.1 1.1 -1.1 -1.2 1.1 -1.4 -1.1 -1.1 -1.2 1.1 -1.4 -1.1 -1.1 -1.2 -1.2 1.1 -1.2 -1.2 1.1 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1			-1.5		-1.1	1.0	1.1	-2.1	1.1	-1.0	-1.1	-1.1	-1.4
1.0 1.10758+ 1.00332+ -1.26916+ -1.5951+ -1.06631+ -2.1 1.1 -1.1 1.4 1.1 -1.5 -1.1 -2.4752- -2.1 -1.0 -1.2 1.3 1.1 1.0 1.0 -2.4752- -2.1 -1.0 -1.4 -1.3 1.2 1.0 1.0 1.0 -2.1 1.1 -1.1 -1.1 1.2 1.0 1.0 1.3 2.1 1.1 -1.3 1.1 -1.1 -1.1 -1.2 1.0 1.05302- -2.1 -2.2 1.1 -1.1 -1.1 -1.2 1.0 1.05302- -2.1 -1.5 1.1 -1.2 -1.2 -1.0 -1.0 1.4671- -2.1 -1.2 1.1 -1.2 -1.1 -1.1 1.4 1.4 -1.1 -1.1 1.1 -1.2 -1.1 1.2 -1.1 1.4 -1.1 -1.1 1.1 -1.2 <			-1.0		-1.5	1.0	-1.66255+~.	-2.1	-1.2	-1.3	-1.2	1.1	1.0
-1.1 1.4 1.1 -1.5 -1.1 -2.4.752- 2.1 -1.0 1.2 1.3 1.1 1.6 -1.02621+- 2.1 1.1 -1.4 -1.3 1.2 1.0 1.0 1.81303+- 2.1 1.1 -1.1 -1.1 1.2 1.0 1.6 1.3 2.1 1.1 -1.3 1.1 -1.2 1.1 -1.2 1.1 -1.5 1.1 1.1 -1.2 -1.2 -1.0 1.05302- -2.1 -2.2 1.1 -1.2 -1.2 -1.0 1.05302- -2.1 -1.2 1.1 -1.2 -1.2 -1.0 1.4671- -2.1 -2.2 1.1 -1.2 -1.1 -1.1 1.4 -1.1 -1.1 1.1 -1.2 -1.1 -1.1 1.4 -1.1 -1.1 1.1 -1.2 -1.1 -1.2 -1.1 -1.1 -1.1 -1.1 1.2			1.10758+		-1.26916+	-1.5351+	- 1	2.1	1.1	1.1	-1.1	1.3	-1.1
1.2 1.3 1.3 1.1 1.0 -1.02621+- 2.1 1.1 1.1 1.0 1.61303+- 2.1 1			1.4		-1.5	1	-2.44752~	2.1	-1.0	-1.1	1.0	1.0	1.0
-1.4 -1.3 1.2 1.0 1.0 1.6 (18) 2.1 -1.6 -1.1 -1.1 1.5 1.0 1.6 1.3 2.1 1.1 -1.3 1.1 -1.2 1.0 1.3 2.1 1.1 -1.3 1.1 -1.1 -1.2 1.50814 2.1 1.1 1.5 1.3 1.2 -1.2 1.0 1.05302 2.1 -1.2 1.1 -1.2 1.2 -1.2 1.4 1.2 -2.1 -1.2 1.1 -1.2 -1.2 1.0 1.4671 2.1 2.2 -1.1 1.1 -1.2 -1.1 1.1 1.3 1.65544 2.1 1.1 1.1 1.1 -1.2 1.1 1.2 1.1 1.	Fc_receptor, IgE, high affinity I, gamma polypeptide		1.3		1.1	MM9-		-2.1	1.1	1.1	1.1	-1.1	-1.1
-1.1 1.5 1.0 1.9 1.3 2.1 1.1 1.1 1.1 1.1 -1.2 1.3 2.1 1.1 -1.3 1.1 -1.1 -1.2 1.4 -2.1 -1.5 1.5 1.3 1.2 -1.2 -1.0 1.06302- 2.1 -1.2 1.1 -1.2 -1.2 -1.0 1.0 1.0 -2.1 -1.2 1.1 -1.2 -1.2 -1.0 -1.0 1.4 -1.1 -1.1 1.1 -1.2 -1.1 1.1 1.3 1.03554+ 2.1 -1.1 1.1 -1.2 -1.1 1.1 1.3 1.03554+ 2.1 -1.1 1.1 -1.2 -1.1 1.2 -1.1 1.1 -1.1 -1.1 1.1 -1.2 -1.1 1.2 -1.1 1.2 -1.1 -1.1 1.2 -1.2 -1.1 1.2 -1.1 -1.2 -1.1			-1.3		1.0	1.0		-2.1	-1.6	-1.2	-1.1	-1.4	-1.02751+
1.1 1.1 -1.2 1.1 -1.4 -2.1 1.1 -1.3 1.1 -1.1 -1.1 -1.2 1608448 -2.1 -1.5 1.5 1.3 1.2 -1.2 1.0 105302 -2.1 -2.2 1.1 -1.2 1.2 -1.2 1.4 1.90837 -2.1 -2.2 1.1 -1.2 1.2 1.2 1.4 1.4671 -2.1 -1.2 1.1 -1.2 1.1 1.1 1.4 2.1 -1.1 1.1 -1.2 1.1 1.3 1636544 2.1 -1.1 1.0 -1.8 1.2 -1.1 1.2 -1.1 1.1 1.0 -1.8 1.2 1.2 -1.1 1.2 -1.1 1.1 -1.2 -1.1 1.2 -1.1 1.2 -1.1 1.0 -1.2 -1.1 1.2 -1.1 -1.2 -1.1 1.0 -1.2 -1.1 <td></td> <td></td> <td>1.1</td> <td></td> <td>1.0</td> <td></td> <td></td> <td>2.1</td> <td>1.1</td> <td>1.3</td> <td>1.1</td> <td>1.0</td> <td>1.0</td>			1.1		1.0			2.1	1.1	1.3	1.1	1.0	1.0
-1.3 1.1 -1.1 -1.1 -1.2 1.0 1.06304 -2.1 -1.5 1.1 -1.2 -1.2 -1.0 1.05302 -2.1 -2.2 1.1 -1.2 -1.2 -1.0 1.4 1.90837 -2.1 -2.2 1.2 -1.3 -1.0 -1.0 1.4671 -2.1 -1.2 -1.1 -1.1 -1.1 -1.1 1.4 -2.1 1.1 1.1 -1.2 -1.1 1.3 1.83554 2.1 -1.1 1.1 -1.2 -1.1 1.2 -1.1 1.3 1.35554 2.1 -1.1 1.0 -1.8 1.2 -1.2 -1.1 1.2 -1.1 -1.1 1.3 1.2 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -	The state of the s		1.1		-1.2	1.1	-1.4	2.1	1:1	-1,1	-1.1	1.0	-1.2
1.5 1.3 1.2 -1.2 -1.0 1.05302- 2.7 -2.2 1.1 -1.2 1.5 -1.2 1.4 1.90557- 2.1 -1.2 1.2 -1.9 -1.3 -1.0 -1.0 1.4671- 2.1 -1.2 -1.1 -1.1 -1.1 -1.1 1.4 2.1 -1.1 1.1 -1.2 -1.1 1.3 1.83554- 2.1 -1.1 -1.0 -1.8 1.2 -1.1 1.2 -1.1 1.3 -1.3 1.0 -1.8 1.2 -1.1 1.2 -1.1 1.3 -1.1 1.2 -1.2 -1.1 1.2 -1.1 1.2 -1.1 1.2 -1.2 -1.1 1.2 -1.2 -1.1 1.0 -1.2 -1.1 1.0 2.2 -1.9 -1.7 -1.7 1.0 1.0 2.2 -1.9 -1.2 -1.2 1.0 1.0 2.2			1.1		-1.1	-1.2		2.1	-1.5	-1.3	-1.3	-1.3	-1.1
1.1 -1.2 1.5 -1.2 1.4 130837 -2.1 -1.2 -1.2 1.2 -1.9 -1.0 -1.0 1.44677 -2.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -2.1 -1.1 1.1 -1.2 -1.1 -1.1 1.3 18854 -2.1 -1.1 1.0 -1.8 1.2 -1.1 1.2 -2.1 -1.1 1.4 -1.2 -1.1 1.1 1.2 -2.1 -1.1 1.4 -1.2 -1.0 -1.2 -1.1 1.2 -2.1 -1.1 1.2 -1.2 -1.1 1.0 -1.2 -2.2 -1.1 1.2 -1.2 -1.1 1.0 -2.2 -1.1 1.0 -1.7 1.7 1.7 -1.1 -1.1 -1.1 -1.2 -1.2 -1.2 -1.1 1.0 -1.7 1.7 1.7 1.7 -1.2 -1.2 -1.1	4		.3		-1.2	-1.0		2.1	-2.2	*	1.1	4.1	1.3
1.2 -1.9 -1.3 -1.0 -1.0 144671- -2.1 **86 -1.1 -1.1 -1.1 -1.1 14 -2.1 -1.1 1.1 -1.2 -1.1 1.3 163544- -2.1 -1.1 -1.0 -1.8 1.2 -1.1 1.2 -2.1 -1.1 1.4 -1.2 -1.2 -1.2 -1.2 -1.2 -1.1 1.2 -1.2 -1.2 -1.2 -1.1 -1.2 -1.1 1.0 -1.7 1.7 1.1 1.0 203538 2.2 -1.9 -1.2 -1.3 -1.2 1.0 1.02832- 2.2 -1.0 -1.2 -1.5 -1.2 1.0 1.0 2.2 -1.0 -1.2 -1.5 -1.2 -1.1 -1.2 -1.1 -1.2 -1.7 1.0 1.0 2.2 -1.9 -1.2 -1.5 -1.5 -1.0 -1.0 -1.0		,	1.2		-1.2	1.4	2.0	2.1	-1.2	1.2	1.1	1.0	-1.2
-1.1 -1.2 -1.1 -1.1 -1.4 -2.1 -1.1 1.0 -1.2 1.4 1.1 1.3 1.83554** 2.1 -1.1 -1.0 -1.8 1.2 -1.7 1.2 -2.1 -1.1 1.4 -1.2 -1.0 1.0 -1.2 -1.2 -2.1 -1.1 1.2 -1.2 -1.2 -1.1 1.2 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.2 -1.2 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.2 -1.2 -1.2 -1.2 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1	4		1.9		-1.0	-1.0		2.1		1.4	-1.1	1.5	1.3
1.1 -1.2 1.4 1.1 1.3 103554** 2.1 -1.1 -1.0 -1.8 1.2 -1.1 1.2 -2.1 -1.3 1.4 -1.2 -1.0 -1.2 -1.1 1.2 2.2 -1.1 1.2 -1.2 -1.1 1.2 -2.2 -1.1 1.0 -1.7 1.7 -1.1 1.0 2.39568 -2.2 -1.9 -1.2 -1.3 -1.2 1.0 1.02832 -2.2 -1.0 1.1 -1.6 -1.7 -1.6 -1.1 -1.6 -1.0			1.1		1.1			2.1	-1.1	-1.3	-1.1	-1.1	-1.1
-1.0 -1.8 1.2 -1.1 1.2 -1.1 1.2 -1.3 1.4 -1.2 -1.0 -1.2 -1.2 -1.2 -1.1 1.2 -1.2 -1.1 1.2 -1.1 2.2 -1.1 1.0 -1.7 1.7 1.7 1.1 1.0 2.29536. 2.2 -1.9 -1.2 -1.3 -1.2 1.0 1.02832- 2.2 -1.0 1.1 -1.6 -1.7 -1.1 -1.6 1.15521- -2.2 -1.0					1.1	1.3	1.83554+-	2.1	-1.1	-1.1	-1.3	1.1	-1.4
1.4 -1.2 -1.0 1.0 -1.2 -1.2 -1.1 1.2 -1.2 -1.1 1.2 -1.1 -1.2 -1.1 1.0 -1.7 1.7 1.7 -1.1 1.0 2.39586 2.2 -1.9 -1.2 -1.3 -1.2 1.0 1.02832 -2.2 -1.0 1.1 -1.6 -1.1 -1.1 -1.6 1.155214 -2.2 -1.0	1		1.8		1.2			2.1	-1.3	-1.0	-1.1	1.2	1.9
1.2 -1.2 1.3 -1.1 1.24271~ 2.2 -1.1 1.0 2.39532~ 2.2 -1.3 -1.2 1.0 1.02832~ 2.2 -1.0 -1.2 -1.5 -1.3 -1.2 1.0 1.02832~ 2.2 -1.0 -1.1 -			1.2		1.0		-1.2	2.2	-1.1	-1.1	-1.3	1.2	1.5
1.0 -1.7 4.7 -1.1 1.0 238582 -2.2 -1.9 -1.2 1.0 1.02832 -2.2 -1.0 1.02832 -2.2 -1.0 1.02832 -2.2 -1.0 1.02832 -2.2 -1.0 1.02832 -2.2 -1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0			1.2		1.2			2.2	-1.1	1.3	1.0	-1.1	1.1
1.2 1.5 1.3 1.2 1.0 1.02832- 2.2 1.0			1.7					2.2	-1.9	1.0	1.3	-1.3	1.1
11 16 11 11 11 11 11 11 11 11 11 11 11 1			1,5		1.2	1.0		2.2	-1.0	-1.0	1.1	1.1	1.1
1.1	AA414112 phosphatidylinositol glycan, class A	1.1	-1.6	1.1	-1.1	1.6	1.15321+~	22	1.0	-1.0	-1.0	1.2	1.2
A1046562 lactate_dehydrogenase_3_C_chain_sperm_specific 1.2 -1.6 -1.3 1.5 1.3 1.27823~ 2.2 -1.0			1.6		1.5	1.3		2.2	-1.0	-1.1	1.0	17.5	2.4
1.0 -2.2 -1.2	The second control of							-2.2	-1.2	-1.2	-1.3	7.	1.0
W16012_uteroglobin 1.3 -1.6 1.2 -1.4 -1.6 1.2 -1.3							-	2.2	-1.3	-1.2	1.1	-1.2	-1.3

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AA152940 immunoglobulin kappa chain variable 28 (V28)	<u>.</u>	-1,6	5.1-	-1.0	-2.1	-3.1	2.2	-1.3	-1.3	1.8	-1.1	-2.5
Al326527_preproacrosin	-1.3	-1.2	-1.0	-1.2	1.0	1,59773-	-2.2	-1.3	-1.1	-1.2	-1.1	1.2
AA267626 mitogen_activated_protein_kinase_kinase_kinase_2	1.0	1.19439+	1.08191+	1.10045+	-1.00411+	-1.21849+~	-2.2	1.2	-1.00038+	1.1	1.1	1.1
AA607463_proteoglycan_secretory_granule	1.2	-1.4	1.1	1.3	1.2	1.1	22	-1.2	1.1	-1.2	-1.1	1.4
AA982227_glutathione_S-transferase,_alpha_3	1.3	-1.0	1.4	-1.3	-1.0		-22	1.2	1.8	1.3	-1.2	-1.0
AA220024_trophobiast_specific_protein	1.5	-2.0	-1.2	1.5	1.1	-1.0	1	-1.2	1.4	1.1	1.2	2.3
AA106793_plasminogen	1.1	-1.6	1,3	6.0	1.1	2.40205-12.2	ir,	3.6	1.0	1.0	-1.4	-1.1
W08947_non-catalytic_region_of_tyrosine_kinase_adaptor_protein_2	-1.8	1.1	1.3	1.0	1.2	1.4	7	-2.2	-1.8	-1.3	-1,9	-1.2
AI050373_RIKEN_cDNA_4921524P20_gene	-1.3	1.2	-1.3	-1.40942*	1.0		-2.2	-1.2	-1.7	-1.1	-1.2	-1.2
AA612413_chitinase,_acidic	-1.1		8	-1.2	1.2	30,000	-2.3	1.2	2.5	-1.2	-1.2	-1.0
Al327450 phospholipase A2, group IB, pancreas	1.3	. 81	1.1	-1.8	-5.7		-2.3	-1.6	-1.4	-1.4	-1.1	-1.0
AA117554_growth_arrest_specific_2	1.1	-1.4	1,4	1.1	1.3	3.96148-	-2.3	-1.3	1.0	-1.3	-1.4	-1.4
AA529824_fatty_acid_binding_protein_2,_intestinal	-1.5	-1.5	-1.7	4.7	-1.1	9	-2.3	1.0	1.4	1,1	2	2.1
W36635_carbonyl_reductase_2	1.2	-1.9	-1.4	1.4	1.0	1.3	-2.3	1.1	1.0	1,2	1.5	1.1
A1154217_poliovirus_sensitivity	-1.2	1.0	1.8	-1.1	1.2	1.3	-2.3	-1.4	-1.3	1.1	-1.3	-1.1
AA237607_pyruvate_kinase_liver_and_red_blood_cell	-1.4	-1.2	5,5	-1.2	1.5	1.3	. 1	-1.2	1.2	-1.1	1.0	1.1
AA600553_claudin_7	-1.1	1.1	-1.2	-1.1	1.2	-1.3	-23	-1.2	-1.1	1.0	-1.3	-1.0
Al019575_secreted_frizzled-related_sequence_protein_4	1.2	-1.3	-1.4	-1.2	-1.2	1.30118-	2.3	-1.3	1.0	-1.2	-1.2	1.3
W18281 RIKEN cDNA 2310012115 gene	1.1	1.1	-1.1	1.1	1.1	-1.1	-2.3	1.1	1.0	1,1	1.1	1.2
AA028346_keratin_complex_1,_acidicgene_19	-1.4	-1.6	-1.9	-1.5	1.0	-1.2	-2.3	1.1	4.1	-1.3	-1.2	-1.2
AA061047_secreted_frizzled-related_sequence_protein_2	1.9	-1.2	-1.3	1.1	1.1	-1,08865~	-2.3	1.3	-1.1	-1.0	1.1	-1.5
AA220582_cytochrome_P450,_2f2	1.4	-1.6	17	-1.0	1.1	_	-2.3	1.5	-1.2	4.1	1.2	-1.0
AA108495_deoxyribonuclease_I	1.1	-1.8	-1.1	1.2	1.4	215	-2.3	-1.2	1.2	-2.4	1.3	1,8
AA655921 neural-salient_serine/arginíne-rich	-1.1	-1.4	1.1	-1.0	-1.1	_	-23	-1.1	-1.1	-1.3	-1.3	-1.1
Al159406_casein_gamma	1.1	-1.7	-1.5	1.2	1.3		-23	-1.3	1.0	-1.1	1.6	-1.2
Al326575_glucose-6-phosphatase,_catalytic	1.3	-1.6	1.4	1.9	1.4		-2.3	-1.2	1.5	1.1	1.2	1.5
A(182792_aquaporin_5	1.3	-1.1	-1.0	-1.6	-1.8	1.03979~	-2.3	1.1	1,0	1.2	-1.6	1.4
AA052457 RIKEN cDNA 0610006F02 gene	1.2	-1.1	1.3	1.1	1.1	-1.4	-2.3	1.9	1.1	-1.3	-1.1	1.3
AA286306_ESTs	-1,18303+	-1.52374+	-1.22332+	-1.2	-1.3	-1.22297+-	-2.4	1.1	1.1	1.09912+	1.1	1.5
AA549040_histone_acetyltransferase	7.7	-1.2	-1.3	-1.8	-1.1	- 6	-2.4	-1.2	-1.0	-1.1	-1.1	-1.2
AA656712 myosin, heavy polypeptide 1, skeletal muscle, adult	1.0	-1.6	1.1	1.2	1.2	21.5	-2.4	-1.4	-1.3	1.1	-1.2	-1.3
Al256688_deleted_in_azoospermia-like	1.1	-1.2	-1.1	1.0	-1.1	-1.06147+~ -	-24	-1.2	-1.1	-1.0	1.1	-1.1
AA106125_cytochrome_P450_2a4	1.3	-1.3	3,0	1.3	1.4		-2.4	1.3	1.1	2,3	1.1	1.1
AA064494 Public domain EST	1.0	-1.5	-1.1	1.8	1.3	2,47,456+**	-2.4	1.2	1.3	1.0	1.4	1,8
AA066835 corticosteroid binding globulin	1.0	1.2	1.61	-1.1	1.2	1.4	-2.4	-2.3	1.1	-1.0	-1.3	-2.4

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AA106167 Public domain ESI	7.1-	-1.4	Z.L-	-	-	10	+7-	0.1.	7!	-	-	2.1.5
AI876995 Immunoglobulin-associated alpha	-1.1	-1.8	-1.2	-1.6	-1.1	-2.1	-2.4	-1.2	-1.5	-1.3	-1.2	-1.2
AA681602_enolase_3,_beta_muscle	1.1	-1.7	-1.0	-1.4	1.3	-1.5	-2.5	-1.3	-1.9	1.1	1.2	-1.4
W17866_uterine-specific_proline-rich_acidic_protein	-1.4	-1.7	-1.2	4.1-	-1.2	1,811341	-2.5	-1.0	-1.3	-1.3	-1.5	2.9
Al060394_ESTs	-1.6	1.3	1.4	1.3	1.3	1.9409+	-2.5	-1.49757+	9.1-	-1.0	-1.6	-1.0
AA864136 lectin, galactose_binding, soluble_7	1.1	-1.2	1.3	1.0	1.2	0	-2.5	-1.5	1.1	1.0	1.0	-1.0
Al552711_creatine_kinase,_muscle	1.1	-1.2	1.1	±4.2	1.3		-2.5	-1.2	4.1-	-1.0	-1.1	-1.2
AA980349 glutathione peroxidase 2, pseudogene_1	-1.3	-1.0	1.2	-1.9	1.1	-2.4	-2.5	-1.5	1.1	-1.1	-1.5	1.5
AA756171 cysteine-rich protein 3	1.1	-1.7	1.0	1.1	1.3	2.0467-	-2.5	-1.6	-1.2	1.0	-1.1	-1.2
AA822346 odorant-binding protein la	-1.2	-1.8	-1.2	-1.0	-1.2	1,72207~	-2.6	-1,6	-1.8	-1.4	-1.2	-3.01254*
AA276747 ESTs	1.14674+	1.07209+	1.11618+	1.0	-1.5	-1.10511+~	-2.6	1.1	1.0	1.2	1.1	1.2
Al390909_gap_junction_membrane_channel_protein_alpha_4	1.1	1.1	1.1	-1.1	1.1	-1.26782+~	-2.6	1.1	-1.1	-1.2	-1.0	-1.0
AW496194 immunoglobulin kappa chain variable 20 (V20 family)	1.4	-12	-1.4	-1.1	-1.9	-2.9	-2.6	-1.6	-1.0	1.4	-1.0	-2.7
W82497_ubiquitin-like_1	1.3	1.8	-1.0	1.1	-1.0	-1.1	-2.7	-1.5	-1.6	4.	1.3	-1.2
Al425461_ESTs_Moderately_simitar_to_1615347A_ras_p21_GTPase_activating_ protein_[M.musculus]	1.1	1.1	1.2	1.1	1.2	1.17621+~	-2.7	1.	-1.2	-1.2	-1.2	1,1
AA189897_ESTs	1.1	1.03128+	1.03168+	1.0	-1.2	-1.30212+	-2.7	1.23177+	1.1	-1.1	1.2	-1.00032+
Al664286_tumor_necrosis_factor_receptor_superfamily,_member_9	1.3	-2.3	-1.1	-1.3	-1.3	1.2	-2.7	-1.3	<u>.</u> .	-1.2	1.1	1,7
AA823639 RIKEN_cDNA_A930018B01_gene	1.1	-1.0	1.4	-1.1	1.0	1.37539~	-2.7	1.0	1.0	-1.1	-1.0	-1.1
AI594276_transcription_factor_AP-2alpha	-1.5	-1.1	-1.1	-1,4	1.2	1.30517~	2.7	-1.4	-1.2	-1.2	-1.1	-1,1
AA122791 histocompatibility_2,_Q_region_locus_7	1.3	-1.4	1.3	-3.0	91	-1.2	-2.8	-1,2	-1.3	-1.0	-1.3	-1.2
AA759679 la-associated invariant chain	-1.0	-1.8	-1.6	-1,9	1.5	3.7	2.8	-1.0	1.9	-1.0	-1.3	-1.4
AA681596_procollagen-lysine_2-2-oxoglutarate_5-dioxygenase_1	1.2	-1.2	-1.0	-1.1	-1.1	-1.3	-2.8	-1.0	-1.0	1.1	-1.0	4.1
AA538511_histocompatibility_2,_D_region_locus_1	1.4	-1.2	1.2	-1.5	1.5	-1.5	2.8	1.1	-1.0	-1.0	1.0	-1.1
AA273374_RIKEN_cDNA_1810008K20_gene	-1.0	-1.0	-1.3	1,4	1,1	1.06792+~	-2.8	1.0	-1.2	-1.1	1.1	1.1
AA413953_ESTs,_Weakly_similar_to_KIAA0661_protein_[H.saplens]	-1.2	-1.1	1.1	-1.4	-1.2	1.05059~	2.8	-1.0	-1.0	-1.2	-1.1	1.1
W11170_small_inducible_cytokine_A21a_(leucine)	-1.2	-1.0	1.1	1.0	1.3	-2.7	-2.8	-1.1	-1.1	1.1	-1.3	1.0
AA717019 ATPase, Ca++ transporting, cardiac_muscle, fast_twitch_1	-1.2	-2.1	-1.1	-1,5	-1.3	1.2	-2.8	-1.4	-1.8	-1.2	1,1	-1.1
AA016759 mini_chromosome_maintenance_deficient_6_(S_cerevisiae)	4.1-	1.1	1.1	1.1	1.3	18	2.9	-2.0	-1.4	-1.3	-1.6	-1.1
W54403_ATPase,_Cu++_transporting,_beta_polypeptide	1.2	-2.1	1.1	-1.0	1.2	1.3	-2.9	-7.9	1.1	-1.1	-1.1	1.2
AA145479_ESTs	-1.2	-1.3	-1.3	-1.2	-1.0	1.16703+~	-2.9	-1.2	-1.3	-1.3	-1.2	-1.3
Al603969_sarcoglycan,_beta_(43kD_dystrophin-associated_giycoprotein)	1.035+	-1.0	-1.2	-1.4	1.0	-1.42644+~	-2.9	1.1	-1.3	-1.4	1.0	-1.2
Al226235 gap_junction_membrane_channel_protein_beta_4	1.1	-1.3	1.1	-1.0	1.1	1.49281~	-3.0	-1.6	-1.3	-1.1	-1.1	-1.0
AA795319_myosin_light_chain,_phosphorylatable,_cardiac_ventric/es	-1.1	-1.9	-1.2	-1.4	-1.3	73831	3.0	-1.8	-1.3	1.1	1.1	1.0
Al639807_ESTs_Weakly_similar_to_E6- AP_ubiquitin_protein_ligase_[M.musculus]	1.3	-1.14976+	1.09666+	-1.53665+	-1.1162+	-1,6245+~	0,	1.11591+	1.11408+	-1.2	1.1	1.2

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Ap212144 forkhead hox A2	-1.2	1.2	1.2	-1.2	-1.7	1.16246+~	3.1	-1.3	1.1	-1.4	-1.5	-1.1
AAX1285 Public domain FST	1.3	-1.4	-2.0	1.4	-1.7	3,0	3.1	-1.3	1.2	1.3	1,4	-1.7
AA270004 mislage resenter sulfamily 1 oronn H member 4	1.23141+	1.21202+	1,5	1.0	1.20848+	-1.53218+~	3.1	-1.09991+	-1.00129+	1.1	1.1	1.29189+
AA738672 Mus musculus mRNA for thymonsin, complete cds	-1.1	-1.2	1.2	1.1	1.2		-3.1	-1.3	-1.2	-1.1	-1.3	-1.5
W36421 Molonev leukemia virus 10	1.1	1.0	1.1	1.2	1.0	-1.09155~	3.3	1.1	1.1	-1.1	-1.1	1.1
AISTON ESTS	-1.13885+	-1.00093+	-1.00932+	-1.0	1.06911+	1.21429+~	3.4	-1.15513+	-1.3	-1.3	-1.2	-1.2
AA008383 nhosnhodiesterase 6D cGMP-snexific. nd. delta	1.2	-1.03596+	-1.5	1.0	1.1	-1.1258+~	3.4	1.0	1.1	4.1	1.0	-1.2
AISOCA41 Miss miscriffic Ren-8 mRNA for remoduction 8, complete cds	-1.0	1.1	2.3	-1.0	-1.3	-1.17893+~	-3.4	-1.1	1.0	۲. ۲	1.1	-1.0
AA549705 ESTs	1.1	1.2204+	1.2	1.2	-1.0	1.0769+~	-3.5	-1.3	-1.0	-1.3	-1.2	-1.4
W4R330 tropomyosin 2. beta	1.2	-1.3	1.0	-2,0	1.2	-1.1	-3.5	-1.5	1.1	-1.1	-1.3	-1,4
44845777 RIKEN ONA 1110007E23 pene	1.0	-1.1	1.2	-1.3	1.2	1.1	3.5	1.0	1.0	1.1	-1.2	-1.5
MAS812 docmin	-1.0	-1.4	-1.3	-1.3	1.1	-1,8	3.6	1.7	-1.1	-1.1	-1.3	-1.0
A GORDAR ECT.	1.0	2188+	-1.08667+	-1.4	-1.21568+	-1.29621+	-3.7	1.03263+	-1.2	-1.1	1.1	1.19019+
AA549305 RIKEN CDNA 4833427P12 gene	-1.11812+	1.22912+	-1.03061+	-1.19208+	-1.1371+	1.02682+~	-3.7	-1.05244+	-1.0	-1.0	1.1	1.05966+
AA114721 RIKEN cDNA 5830475106 gene	-1.5	1.3	-1.4	-1.27884*	1.3	-1.8	-3.7	-1.2	-1.4	-1.1	-1.16457*	-1.1
AA089188 uromodulin	-1.2	-2.0	-1.0	1.1	-1.3	1.0	0.4	-1.4	-1.7		-1.2	-1.4
AA839138 CD8 antices, alpha chain	-1.3	-1.08773+	-1.3	-1.8	1.2	-2.63867+-	0	1.0	-2.0	1.1	1.0	-1.1
AA763276 small muscle omfein X-linked	-1.7	-1.4	1.1	1.8	1.2	1.9	9.	-2.5	-1.6	-1.2	-2.0	-1.5
AA474047 FSTs	-1.2	-1.6	-4.1	-1.1	7.8	1.1	. 0.9	1.0 .	-1.2	-1.3	-1.0	-1.2
AA474047_ESTs	-1.2				-1.8	1.1	. 0.9	1.0	1.2		-1.3	

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colon	lds	panc	A]	stom	int	100.	br	lung	biad	kidn	pl/ut	mam
	PL-	PL-	PL.	PL. 8B BDEnor	PL- 3B BDEnor	PL. 5B BDEnor	PL- 1B BDEnor	P.L. 7B. BDEnor	P.L. 9B BDEnor	PL- 10B BDEnor	PL. 10B_BDEnor [11B_BDEnor	PL- 12B BDEnor
why home P461 219 than bandato indicible to a		-1.4	E25685	1.3	A STATE OF THE STATE OF					1.2	1.1	1.2
	1.8	1.3	1.1	2.3		3.6	1.0	-2.0	-1.3	-1.2	-1.7	1.0
culus Cyp443 mRNA for family 4 cytotheoria p		-1.6	1.4	-1.1	Æ.	5.6	-1.2	-1.1	1.0	1.0	1.2	1.1
CMA 2510002C21 gang	1.1	1.1	1.0	-1.8	1.1	8.8	-1.1	-1.0	1.4	-1.2	-1.0	-1.1
(retina)	-1.2	-1.3	1.1	11	3,1	3.2	-1.5	-1.9	-1.2	1.2	-1.3	6.5
	-1.5	1.0	1.4	1.0	1.2	3.0	-1.4	2.1	-1.5	-1.3	-1.7	-1.3
IRPSB_mRNA_for_mitoehondrial_ilbosoma	-1.2	1.1	1.3	1.3	1.3	29	-1.9	2.2	-1.2	-1.0	-1.4	-1.3
AA822473_DNA_segment_Chr_8_Brigham_&_Woments_Genetics_132.	4.0	-1.6	1.3	-1.0	-1.1	5.0	-1.7	-1.7	-1.2	1.2	-1.2	-1.3
1s_Moderately_similar_to_protessome_inhibitor_heist	-1.3	1.2	1.8	1.1	. 6.1	3.1	7.14	-2.0	-1.3	-1,2	-1.5	-1.1
culus "Similar to ectonucteotide pyrophosphalas 3. clone IMAGE 3498328, mRNA, partal cds	<u> -</u>	0.	1.3	1.1	-1,3	2.6	-1.59207+	-1.3	1.0	-1.1	1.0	1.2
	-1.6	4.0	1.1	1.2	1.1	28	-1.0	1.8	-1.4	-1.2	-1.8	-1.3
e dehydrogenase (NAD+ depende	4.1	1.2	1.4	1.1	1.1	2.8	-1.8	-1.7	-1.3	1.1	-1.3	-1.1
tinal	7.5	-1.5	-1.7	14	-1.1	26	-2,3	1.0	1.4	1.1	41	
	4.1-	1.1	-1.8	-1.5	1.2	25	1.2	-1.6	-1.3	-1.5	-1.2	-1.1
	-1.2	1.1	-1.2	1.8	13		-1.3	1.5	1.1	1.0	1,9	1.5
	-1.0	1.1	-1.1	1.1			-1.2	-1.2	-1.1	-1.2	-1.2	-1.5
	7.	7.0		1.5	1.5		1.1	4.7	-1.5	-1.1	10	4.1
s a 1260za hypothelical svisti (cestiganis)	-1.0	1.2	1.4	1.3	-1.0	2.2	-1.5	-1.4	-1.3	-1.2	-1.5	-1.0
	-2,3	1.0	1.2	-1.0	1.2	7	-1.3	2.5	2.1	-1.4	2.6	-1.4

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AA727521 Mur. suisculus 173 khs. suotesu pation, prayamin mitty A. complete sois	1.1	-2.0	-1.4	* 4.2.1	1.5	24 ****** -1.6		1.2	1.1	1.1	1.5	1.2
AA822098-apolipopigosin-Asp	-1.9	-1.5	1.1		2.4	24 -1.9	Ť	-9.0	-1.2	-2.1	-2.5	-1.6
AA989181_defensin_related_cryptdin_6	-1.8	-1.7	-1.5	2.0	1,5	2.5		-1.2	1.1	-1.2	1.4	1.3
AA546645_cell_division_cycle_2_homolog_(S_pombe)-like_2	-2.1	-1.1	1.3	1.4	1.1			-3.0	-2.3	-1.5	-2.4	-1.4
AA869219_intelectin	-1.0	-1.3	-1.1		2.0	2.2: -1.9		1.3	1.2	-1.0	1.5	1.8
Al465074 mesoderm specific transcript	1.2	-1.7	1.0		-1.2	1.3		-1.2	1.1	-1.2	1.0	-1.6
AA871914 defensin related cryptdin 16	-1.9	-1.3	-1.1	1.6		7.2		-1.2	1.2	-1.1	1.1	-1.0
AA982227_glutathione_S-transferase,_alpha_3	1.3	-1.0	1.4	-1.3	-1.0	22 - 22		1.2	8.1	1.3	-1.2	-1.0
AA437876_degenerative_spermatocyte_homolog_(Drosophila)	1.2	1.2	1.4	-1.5		-1.1		-1.1	-1.1	1.2	-1.2	-1.2
AA023491_RIKEN_cDNA_1600012D06_gene	1.2	1.2	-1.0	4.	1.8	1.3		1.2	4:1	-1.0	-1.5	1.4
AA024217 Public_domain_EST	-2.5	1.8	20	1.2	2.3	2.2		4.2	-1.9	-1.2	-2.3	1.1
Al613926_twist_gene_homolog_(Drosophila)	-1.1	1.1	-1.17581*	2.1	1.4	1.2		-1.3	1.1	1.0	-1.2	-1.0
AA108495_deoxyribonuclease_1	1.1	-1.8	-1.1	1.2	1.4			-1.2	77	-2.4	1.3	1.6
A1323308 interleukin 3 receptor, alpha chain	4.1-	-1.1	1.4	1.1	1.3	-1.2		-1.8	-1.7	-1.3	-1.7	-1.3
AA727967_serine_(or_cysteine)_proteinase_Inhibitor_clade_F_(alpha- 2_antiplesmin, pigment epithelium derived factor), member 1	1.1	-1.3	1.3		1.2	2.1		-1.5	-1.2	1.1	-1.3	.1.6
AA717167_cytotoxic_T_lymphocyte-associated_protein_2_alpha	1.4	-1.8	-1.3	2.1	1.4			-1.1	1.5	-1.4	-1.5	1.8 %
AI595630 RIKEN cDNA 4930578106 gene	4.1-	-1.0	1,2	1.3	13	2.1 1.3		-1.2	-1.1	1.0	-1.2	-1.0
AA656712_myosin, heavy_polypeptide_1, skeletal_muscle, adult	1.0	-1.6	1.1	1.2	1.2	2.4		-1.4	-1.3	1.1	-1.2	-1.3
AA671135 myosin heavy chain, cardiac muscle, adult	-1.1	-1.7	1.3	1.2	1.1	2.4		-1.3	-2.1	1.4	-1.2	-1.3
AA725966_sphingosine_kinase_1	-1.3	-1.1	1.3	-1.2	1.3	4.3		-1.5	-1.1	-1.0	-1,3	-1.2
Al386288 RIKEN cDNA 2700043D08 gene	-1.0	-1.2	1.3	1.3	-1.2	20		-1.3	1.1	1.2	-1.1	-1.0
AA982240 advanced glycosylation end product-specific receptor	-1.0	-1.2	-1.3	1.5		0 -1.1	1 1.2		1.0	1.1	1.2	1.3
AA895199_ketohexokinase	-1.1	-1.1	1.6	1.0		-4.7		-1.5	-1.1	1.1	-1.1	-1.1
AA270885 parvalbumin	-1.1	1.4	-1.4	1.4	1.3	1.5	5 1.2		1.1	1.2	2.3	-1.2
Al429054 ESTs	-1.0	-1.1	1.3	1.1	-1,2	1.1		-1.4	-1.2	-1.0	-15	-1.4
AA106834_ESTs,_Weakly_similar_to_EP15_MOUSE_EPIDERMAL_GROWTH_FA CTOR_RECEPTOR_SUBSTRATE_SUBSTRATE_15_[M.musculus]	-1.3	1.1	1.0	-1.2	0.1	20.	1.0		1.1	1.1	-1.1	1.0
AA674392_ESTs_Moderately_similar_to_A23772_LINE-1_hypothetical_protein mouse_[M.muscutus]	-1.2	-1.5	2.1	1.3	-1.3	-1.0		-1.3	-1.3	-1.3	1.2	-1.1
Al892747_glutathione_S-transferase,_alpha_1_(Ya)	-1.1	-1.3	7	-2.1	-1.7	1.2	-1.1		1.4	1.8	-1.1	1.1
AA067236 fibroblast growth factor receptor 1	-1.2	1.0	1.4	1.5	1.5	1.6	5 -1.2		1.1	1.0	-1.1	-1.0
AA230638 transcription factor-like protein ODA-10	-1.2	1.7	-1.5	-1.1	-1.2	1.2		-1.8	-1.1	1.1	-1.3	-1.5
AA871641 defensin related cryptdin, related sequence 2	-1.0	1.3	-1.4	1.8		0. 1.2	4:1		1.2	1.1	1.8	1.8

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AA067003 alutathione S-fransferase. mu 1	-	1.2		1.0	2.0	1.5		4.	1.0	1.2	4.1	<u>ب</u> دن	-1.2
AA591707 DNA polymerase epsilon, subunit 2	-1.1	1:		.05228*	2.0	-		-1.6	1.1	1.1	1.1	-1.1	1.1
AA548945_tyrosine_3-monooxygenase/tryptophan_5- monooxygenase activalion modein zeta optynentide	<u>1</u>	6.		1.4	-1.1	1.2		<u>-1</u> 5:	2.0	<u>د</u> بن	-1.2	, <u>,</u> 8j	
AA066225 selenomotein P. plasma, 1	12	4.	-	1.2	1.7	2.3	1,6	1.5	-1.2	-1.1	1.2	-1.6	-1.1
Al385457 retinol binding protein 2, cellular	-2.0	2.	. 1	-1.6	1.9	1.5	1.61	-1.3	-1.9	1.6	-1.9	-1.5	-1.7
AA795264 ubiquitin-like 1	-1.0	-1.8		1.3	1.1	1.1	1.8	1.7	-1.6	-1.3	1.1	-1.1	-1.2
AA670943 phosphatidic acid phosphatase 2a	1.1	-1.1		1.4	1.2	- 8	6 T	-1.3	-1.1	1.0	1.0	1.1	-1.0
Al181090_cytochrome_P450,_subfamily_IV_B,_polypeptide_1	1.0	4.1		-1.1	-1.1	1.1	6.	-1.9	-1.2	-1.2	1.1	1.1	-1.1
AA871838 phospholipase A2, group IIA (platelets, synovial fluid)		-1.0		-1.2	17.7	2.8	. 81	-1.9	1. 5.	1.5	1.2	1.3	**
	1.7	-1.4		1.1	1.8	1.2		4.6	-2.5	-16	-1.2	-2.0	-1.5
	1.3	1.1		-1.0	-1.6			-1.3	1.1	1.0	-1.0	-1.0	1.1
AA120401 A kinase (PRKA) anchor protein_10	1.1	1.1	,	-1.1	-1.0	1.3	8	1.0	1.2	1.1	1.1	1.2	1.1
Al595611 aquaporin 7	4.0	-1.2		-1.0	1.6	1.3	8	1.1	-1.3	1.1	1.1	1.0	-1.0
Al892208_protamine_2	-1.4	-1.8		1.3	1.4	-1.2	8	-1.6	-1.5	-1.7	-1.2	-1.3	-1.3
AA789873_ATPase, H+ transporting, lysosomal (vacuolar proton pump) 42kD	-1.5	1,4	1	1.3	1.0	1,4		1.1	1.8	-1.5	-1.0	9.	-1.2
AA268059 iroquols_related_homeobox_3_(Drosophila)	-1.3	-1.2	-	7	7.5	4.1	6	1.2	-1.4	-1.2	-1.2	-1.2	-1.0
AA711681_transaidolase_1	1.0	1.1	-	1.1	-1.3	-1.2	6.1-	-1.0	-1.3	-1.0	1.0	-1.1	-1.0
AA145254 SEC61, gamma subunit (S. cerevisiae)	1.4	1.1	1	1.1	4.1-	1.7	6	-1.2	-1.3	1.1	-1.0	1.1	-1.0
31 (aldose reductase)	1.1	-1.1		-1.2	7:1-	-1.0	10 m	-1.1	1.0	-1.1	1.0	1.1	-1.2
AI036487_ESTs	. 0:1-	1.1	21	11.1	-1.3	ું કે -	1.9	1.0	1.0	-1.0	-1.3	1.1	1.0
W21012_timeless_homolog_(Drosophila)	-1.2	1.	-	1.0	8.	-1.1	1.9	1.1	-1.3	-1.2	-1.0	-1.3	-1.1
AA138265 RIKEN cDNA_2010309G21_gene	-1.1	-2.2	5	1.5	-1.2	-1.0	-7 00	1.1	1.1	-1.3	-1.0	-1.0	-2.4
A121690 RIKEN cDNA_1300007C21_gene	-2.0	-1.7	14	-1,4	-1.4	-1.4	-1.9	-1.2	-1.1	1.7	-1.5		
AI876997_carboxyl_ester_lipase	1.5	. 9	7	4.	-2.3	-8.9	6.	-1.3	-1.4	-1.1	1.1	2.0.2	2.2
AA106894_carbonic_anhydrase_4	1.2	-1.5	7	1.2	4.1-	8	5.6	1.5	1.0	-1.2	8.	-1.2	1.2
AI158565 guanine nucleotide binding protein (G_protein), gamma_10	-1.0	-1.0		-1.1	-1.3	-1.6	-1.9	1.2	-1.5	-1.3	-1.3	-1.1	-1.3
Al893892 interferon regulatory factor 2	4.1-	-1.0	7	6.	-1.5	1.1	9.	-1.3	-1.2	-1.3	-1.2	-1.1	-1.1
AA238062_CD52_antigen	1.	1.6	7	6.	1.0	-1.1	٠ , ٠	-1.6	-1.3	-2.6	-1-1	-1.2	-1.1
i factor acetylhydrolase, isoform 1b, alpha1 subunit	1.2	-1.7		-1.1	2.	6.1	1.9	-1.1	1.2	4.	1.3	1.2	1.1
	1.0	1.4	-1	6.1	-1.3	1	2.0	1.3	-1.0	-1.4	-1.0	-1.3	1.1
	1.1	1.1		1.1	-1.2	1.1	-2.0	1.1	-1.4	-1.1	-1.2	-1.2	-1.2
te anticen 6 complex, locus E	-1.7	1.2	<u> </u>	1.2	3.5	-1.1	2.0	1.1	-1.1	-1.1	-1.4	1.1	-1.2

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AA245754 lysosomal membrane glycoprotein 2	1.2	-1.2	1.1	-1.5	-1.6	-2.0	* 1	-1.0	1.2	1.1	1.1	-1.0
AA145895 heat shock protein, 70 kDa 1	1.1	-1.1	-1.0	1.2	-1.8	-2.0	-1.7	\$.	1.1	1.1	-1.0	-1.1
Al594243_CD8beta_opposite_strand	-1.4	-1.0	-2.0	-1.7	1.1	2.0	1.2	-1.2	-1	-1.2	-1.1	-1.2
Al390138 RIKEN CDNA 3930401B19 gene	4.1-	-10.7	-1.1	-2.0	-1.2	-2.1	-1.3	-1.2	1.5	-1.9	-1,3	-1.1
Al120876_CD24a_antigen	1.3	1,2	-1.5	-2.8	-1.7	-2.1	1.1	-1.2	-1.0	-1.0	-1.4	1.1
Al552004_ESTs, Highly_similar_to_H-REV_107_PROTEIN_[R.norvegicus]	1.4	1.2	1.5	k1.1	-1.3	-2.1	1.5	1.0	-1.0	-1.0	1.0	-1.2
W15890 guanylate cyclase activator 2 (guanylin 2. intestinal, heatstable)	1.0	1.0	-1.3	1.2	2.8	-2.1	-1.5	1.1	-1.2	-1.0	1.1	4.1
AA44443 immunoglobulin_heavy_chain_6 (heavy_chain_of_lgM)	-1.2	1.8	-1.4	1.1	1.2	-2.1	-1.9	1.1	1.0	-1.0	1.2	1.0
Al894016_complement_component_1,_q_subcomponent,_c_polypeptide	1.1	-1.4	1.3	1.0	1.3	-2.1	1.1	-1.1	-1.1	1.1	-1.2	-1.2
AA414831 hypoxia induced gene 1	1.4	1.1	1.2	-1.3	-1.4	-2.1	1.1	-1.1	1.3	-1.1	1.1	-1.2
AI892299 RIKEN_CDNA_5830499B15_gene	1.0	-1.3	1.1	1.8	1.3	-2.1	-1.8	-1.0	1.5	1.2	1.2	7.8
Al322733_2'-5'_oligoadenylate_synthetase_1A	1.1	1.2	-1.1	-2.6	1.1	-2.1	-1.1	1.0	-1.2	1.1	-1.2	1.1
AA688795 ESTs	-1.0	4.1	-1.3	-1.1	1.1	-2.1	7.	1.3	-1.0	-1.1	1.1	1.2
Al325323_myocyte_enhancer_factor_2C	-1.3	-1.0	1.2	-1.3	-1.7	-2.1	1.2	1.2	-1.1	-1.0	-1.1	-1.2
AA138654_ESTs_Weakly_similar_to_lysophospholipase_ _[M.musculus]	-1.4	-1.6	-1.1	-1.0	-2.3	2.1	. 1.1	-1.7	-1.0	1.4	-1.1	1.2
AI876995_immunoglobulin-associated_alpha	-1.1	-1.8	-1.2	-1.6	-1.1	-2.1	-2.4	-1.2	-1.5	-1.3	-1.2	-1.2
Al060720_T-cell_specific_GTPase	1.0	-1.3	-1.2	-1.8	-1.1	-2.1	1.2	4.1-	-1.4	-1.2	-1.0	-1.0
AA675084 elastase 2	2.3	1.4	-1.2	-2.7	21.7	-2.2	21	-1.9	-4.0	-1.4	-1.2	-1.4
AA123007_2'-5' oligoadenylate_synthetase-like	1.1	4.1-	-1.3	-2.2	-1.1	-2.2	-1.1	1.3	1.1	-1.1	-1.1	-1.1
AA237793 rat regenerating islet-derived, mouse homolog 1	2.6	4.	-1.3	-3.9	-11.8	-2.2	1.0	-1.4	-2.7	-1.2	-1.2	-1.2
AA688697 distal intestinal serine protease		1.3	-1.2	1.1	1,7	-2.2	1.3	1.5	1.2	1.0	1.5	1.3
AI037523_transgelin	1.1	1.1	-1.2	-1.5	1.1	-2.2	-1.6	-1.2	-1.4	1.0	-1.7	-1.1
Al325697 lymphocyte antigen 6 complex	8	-1.1	1.6	-1.3	1.1	-2.2	-1.3	-1.1	4.4	1.1	1.1	-1.1
AA237943 sperm specific antigen 1	1.0	-1.0	1.1	-1.1	-1.2	-2.2	1.0	1.0	1.1	1.1	1.0	1.0
Al605616_ESTs	-1.2	-1.1	1.3	-1.5	-1.9	-2.3	-1,4	-1.4	-1.2	-1.2	-1.5	-1.1
W62520 thiosulfate sulfurtransferase, mitochondrial	1.1	-1.0	1.3	-1.7	-1.3	-2.3	-1.2	-1.3	-1.0	-1.3	-1.2	-1.2
A1036062 histocompatibility 2, class II, locus DMa	-1.3	1.2	-1.2	1.2	1.1	2.3	1.0	-1.1	-1.3	-1.0	-1.0	1.1
AA939788_caspase_7	1.1	-1.0	1.0	-1.0	-1.0	-2.3	-1.4	-1.2	-1.2	1.0	-1.0	1.1
AA097896_0-6-methylguanine-DNA_methyltransferase	-1.2	1.2	-1.6	-1.9	1.3	2,3	1.0	-1.1	-1.1	-1.2	-1.1	-1.1
Al481911 Mus musculus, clone MGC:6727, mRNA, complete cds	-1.1	-2.0	-1.8	1.0	-1.8	-2.3	-1.5	-2.4	-1.4	3.6	-1.4	-1.4
AA498574 kallikrein 6	1.8	1.5	-1.2	-1.4	-2.7	-2.3	-1.2	2.8	7.2.	1.1	1.0	1.3
W15001 CD52 antigen	1.1	-1.7	1.2	1.1	1.1	-2.3	-1.2	-1.2	-2.5	1.1	-1.1	-1.0
AA619407 pancreatitis-associated protein	1.2	16.5	1.9	1.2	4.4	24	-1.1	-1.3	1.0	-1.2	1.3	1.1

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AA575501_ESTs	4.1-	2.2	1.0	-1.3	1.2	-2.4	1.3	-1.6	-1.5	-1.2	1.3	-1.1
AA684403_ESTs	-1.4	1.2	-2.3	-2.0	, <u></u>	-2.4	1.5	-1.0	-1.3	-1.3	-1.1	-1.1
AA458072 adipocyte complement related protein of 30 kDa	1.3	-1.2	-1.0	-1,3	1.0	.2.4	-2.0	-1.1	-1.5	1.1	1.3	-1.5
AA980349 glutathione peroxidase 2, pseudogene 1	-1.3	-1.0	1.2	-1.9	1.1	-24	-2.5	-1.5	1.1	-1.1	-1.5	1.5
W09198 calcium binding protein A6 (calcyclin)	1.2	-1.2	-1.2	-1.6	9.	-2.4	1.1	1.7	1.0	1.2	-1.2	1.0
Al386062 carbonic anhydrase 3		-1.3	2.1		1.1	-2.4	1.7	-2.1	-1.3	-1.2	-1.6	-1.5
AA880295 immunoglobulín joining chain	1.2	-1.5	-1.4	1.2	-2.2	-2.4	-1.9	7.1	1.3	1.5	1.4	-1.3
AA068624 hydroxyacid oxidase (glycolate oxidase) 3		1.3	-1.2	2.2	1.32102*	-2.4	1.2	1.4	1.3	1.1	1.3	1.5
AA148478 M.musculus mRNA (3C10) for IgA V-D-J-heavy chain	-1.3	1.0	-1.6	27	-2.0	-2.4	-1.1	-1.4	1.5	2.0	1.1	1.8
AA050168 proteasome (prosome, macropain) subunit, beta type 10		1.2	1.2	-1.1	1.1	-2.5	-1.0	-1.3	-1.1	-1.2	1.1	-1.2
Al451862 RIKEN CDNA 0910001A18 gene		1.3	-1.1	-2.5	-14.7	-2.6	1.2	-1.3	-2.4	-1.3	-1.1	-1.3
Al386046_trypsin_4	1.7	1.8	1.1	-1.8		-2.6	1.8	-1.5	-2.5	-1.1	-1.3	-1.2
AA386807 RIKEN cDNA 2310002A12 gene	-1.0	1.1	-1.7	-1.3	-1.2	-2.6	-1.2	-1.2	1.1	1.0	1.1	-1.1
AA822485_proteosome_(prosome,_macropain)_subunit,_beta_type_9_(large_mutifi unctional_protease_2)	1.0	ا. ن	1.3	-1.1	-1.1	-2.6	1.1	-1.1	-1.1	1.1	-1.0	-1.3
AA880322 calponin 1	-1.2	-1.4	-1.1	-1.1	1.1	-2.6	-1.7	-2.1	-1.5	-1.2	-1.4	-1.0
AA212405_dihydrofolate_reductase	-1.2	-1:6	-1.2	-1.0	-2.5	-2.6	1.1	-1.4	-1.2	1.1	-1:1	-1.7
Al529513_ESTs_Moderately_similar_to_F26L_MOUSE_6PF-2-K/FRU-2,6- P2ASE_LIVER_ISOZYME_[M.musculus]	-1.2	<u></u>	1.1	-1.6	1:1	2.6	2.2	1.3	1.1	1.4	-1.3	-1.3
AA762277 lymphocyle antigen 6 complex, locus C	1.4	1.1	1.1	1.0	-1.2	-2.6	1.2	-1.3	1.1	1.1	-1.1	7.1
A1048040 claudin 4	-1.6	1.5	-2.1	-1.9	1,7	-2.7	1.5	-1.1	-1.2	-1.3	-1.2	-1.2
Al326566 histocompatibility 2, class II antigen E alpha	1.4	-1.5	1.2	1.1.	1.5	-2.7	-1.1	1.2	-1.6	1.1	-1.1	-1.4
W11170 small inducible cytokine A21a (feucine)	-1.2	-1.0	1.1	1.0	1.3	-2.7	-2.8	-1.1	-1.1	-1.1	-1.3	1.0
AA967824 arginine vasopressin	1.4	-1.6	-1.2	-1.1	-1.9	-2.7	-2.0	-1.4	-1.3	1.4	-1.2	-2.3
W08321 inhibitor of DNA binding 1	1.1	-1.1	1.1	-2.0	1.1	-2.7	-1.6	4.1	-1.0	1.0	-1.0	1.2
A1157238 histocompatibility 2, class II, locus Mb1	-1.2	-1.1	-1.1	1.1	1.2	-2.8	-1.2	-1.2	-1.4	-1.1	1.1	-1.2
AA272836 aquaporin_8	-1.1	1.2	-1.1	1.4	1.4	-2.8	1.2	1.0	1.0	1.2	-2.4	1.3
AW496194 immunoglobulin kappa chain variable 20 (V20 family)	1.4	-1.2	-1.4	-1.1		-2.9	-2.6	-16	-1.0	1.4	-1.0	-2.7
AA792785 histocompatibility 2, class II antigen E beta	1.2	-1.7	-1.1	1.5	1.8	-2.9	-1.2	1.2	-1.7	1.1	1.0	1.1
Al428626_ESTs	-1.4	1.1	-2.1	-1,8	1.3	-3.0	1.2	-1.2	-1.1	-1.3	1.0	-1.2
AA871265 Public domain EST	1.3	-14	-2.0	1.4	4.7	-3.0	-3.1	-1.3	1.2	1.3	1.4	-1.7
AA152940 immunoglobulin kappa chain variable 28 (V28)		-1.6	-1.5	-1.0	-2.1	-3.1	-2.2	-1.3	-1.3	9.	-1.1	2.5
AA754696 immunoglobulin heavy chain 6 (heavy chain of IgM)	1.8	-1.5	1.0	-1.2	-1.8	-3.2	-1.9	-1.0	-1.2	-1.0	-1.1	-1.4
AA790398 ribonuclease 1, pancreatic		7.3	-1.2	-5.8	-16.6	-3.3		-1.9	4	-1.1	-1.2	1.1
AA072834 RIKEN.cDNA 9030418M05 gene	1.1	1.2	-1.1	2.1	1 13744*	3.3	-1.1-	1.1	-1.1	1.1	1.1	1.3

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W17930 small inducible cytokine A21a (leucine)	-1.2	1.0	4.1-	-1.2	1.2	-3.3	-1.3	-1.0	-1.2	-1.2	-1.5	-1.2
	-1.1	1.1	1.0	1.4	1.5	-3.4	1.2	-1.0	-1.1	-1.0	1.2	1.1
	-1.0	+	1.1	-1.3	-2.5	3.6	1.2	4.1	-1.2	7.7	-1.1	-1.0
osome_(prosome,_macropain)_subunit,_beta_type_8_(large_muttf se_7)	1.1	-1.5	1.1	-1.9	1.0	3.6	-1.5	-1.2	-1.1	1.2	-1.0	-1.2
W15809 hemoglobin, beta adult major chain	1,5	-1.2	1.2	-2.9	1.3	3.7	3.4	-1.2	-1.0	80	-1.7	-1.6
	-1.0	-1.8	-1.6	1.9	1.5	-3.7	-2.8	-1.0	-1.9	-1.0	-1.3	4.1-
oetylneuraminy[_2,3-betagalactosyl-1,3}-ransferase) F	-1.0	-1.1	1.0	1.2	1.3	6. 6.	1.2	1.1	4.	1.0	1.	-1.1
	-1.0	1.1	4.1-	-1.3	-5.5	-3.9	1.0	-1.2	-1.2	-1.1	-1.5	-1.1
	3.1	1.1	-1.2	-2.8	-32.0	4.0	232	-1.2	4.4	-1.1	-1.1	-1.2
	-2.2	-1.3	1.2	1.5	-53.5	4	1.0	-1.2	-1.1	-1.2	-1.2	1.4
beta adult major chain	1.3	-1.2	1.4	4 .0	1.1	4.2	3.8	-1.1	-1.3	1.5	- 1.8	-2.0
AA106071 hemodobin, beta adult major chain	1.3	-1.4	1.2	-3.0	1.1	4.3	32	1.1	-1.3	1,8	-1.7	-2.0
A, alpha	-1.1	-1.3	1.1	1.0	1.3	4.5	1.2	1.1	-1.9	1.3	-1.0	-1.2
AA497618 crp-ductin	- Z)	1.8	1-1.1	9.	-6.1	5.0	1.5	-1.2	-1.3	-1.2	1.5	1.2
AA717025 Mus_musculus_10_day_old_male_pancreas_cDNA_RIKEN_full-length_enriched_library, clone:1810009A17, full insert_sequence	0.1	-1.1	-1.2	-2.7	-25.5	-5.2	i de	-1.6	-2.9	1.2	1.1	4:1-

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TABLE 2

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intestine	spl	panc	Iį∧	stom	int	loo	ģ	lung	blad	kidn	pl/ut	mam
	PL- 4B_BDEnor	PL. 2B_BDEnor	PL- 6B_BDEnor	PL- 8B_BDEnor	PL- 3B_BDEnor	PL- 5B_BDEnor	PL- 1B_BDEnor	PL- 7B_BDEnor	PL- 9B_BDEnor	PL- 10B_BDEnor	PL- 10B_BDEnor 11B_BDEnor 12B_BDEnor	PL. 12B_BDEnor
Securatilis-associated projett			-1.9	1.2	*	-2.4	-1.1	-1.3	1.0	-1.2	1.3	1.1
	7.5	-1.2	1.3	1.1		2.35768	-1.1	22	1.2	1.1	1.0	1.3
22 KDa	1,5	1.05393+	1.4	1.1		-1.4304~	1.2	1.1	1.3	1.2	1.1	-1.2
	-1.2	-1.3	1.1	1.1	3.1	3.2	-1.5	-1.9	-1.2	1.2	-1.3	8.5
	1.1	÷609	1.1	1.2	8	1.27917+~	-1.2	1.0	1.1	1.1	-1.1	1.5
, 0610010E08. gene	1.	1.1	1.1	-1.0	2.8	1.8	1.0	1.0	1.3	1.6	-1.1	1.0
	1,3	-1.3	-1.4	1.3	2.9	1.1	-1.5	-1.3	-1.1	1.0	1.0	-1.3
up, IIA, (platelets, eynoght)	1.1	-1.0	-1.2		82	1.9	-1,9	-1.3	1.5	1.2	1.3	1.7
	18		1.1	4.1-	2.7	1.4	-1.1	1.1	-1.0	1.3	-1.2	-1.2
A4656894 cytochrome P480, 258, phanobarbitel inducible.		1.4	1.9	1.3	2.8	3.8	-1.3	11	1.3	1.2	1.1	1.2
W18890_guanylate_eyclase_activator_2_tguanylin_2_jonestinal heatstable	1.0		-1.3	1.2	2.8	2.1	-1.5	-1.1	-1.2	-1.0	1.1	1.4
irone P450_2b13_ptenobarbitol_fiducible_1		-1.1	50	1.0	948 (3) 03084	2.82616+~	1.0	1.1	1.2	-1.2	1.1	1.4
f. soring professe inhibitor, Kezal type 3 . c. S. C.	1.5	1.8	-1.4	1.1	2.8	-1.0	-1.8	1.2	-9.2	-1.0	1.0	2.6
	1.1	1.1	1.4	1.2	7. 2 1. 3 1. 4		1.3	1.2	-1.0	1.3	1.0	-1.0
AA638765 metallothionein 1	0.1	1.	2.5	1.2	7	1.8	1.2	-1.6	-1.3	1,6	-1.9	-1.2
	6.	-1.5	1.1	2.4	2.4		-1,9	9.0	-1.2	2.i	-2.5	1,6
related sequence 7	1.2	-1.4	-1.6	1,141	2.3	1,3	-1.2	-1.5	-1.1	-1.5	1.1	1.2
		1.1	1.1	1.3		-1.0	1,8	1.1		1.0	1.2	-1.1
related sequence 10	-1.0	-1.1	-1.7	2.0		1.5	1.2	1.2	16	1.1	1.8	1.2
Al324398 glycosylphosphatidylinositol specific phospholipase D1	1.1	-1.3	1.2	-3.4		-1.5	2.0	-1.2	-1.3	1.2	-1.6	-1.6
AA066225 selenoprotein P. plasma, 1	1.2	1.4	1.2	4.7	2.3	6	1.5	-1.2	1.1	1.2	-1.6	-1.1

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AA024217 Public domain FST	-2.5	1.8	2.0	1.2	2000	27 77	-1.0	4.2	-1.9	-1.2	-2.3	1.1
AA882450 RIKEN cDNA 1200011D11 gene	0				2.3	1,60563~	-1.4	-1.0	1.1	-1.2	-1.2	1.1
Al385503 cysteine rich intestinal protein	1.3	1.1	-1.0	-1.6		1.9	-1.3	-1.1	1.0	-1.0	-1.0	1.1
AA162211 quanine nucleotide binding protein, alpha 11			-1.0	1.3		1.2	1.2	1.0	1.2	1.1	1.0	1.0
AA415344 histone deacetylase 7	1.2		1.8	-1.2		1.28947~	17	1.5	1.0	1,4	-1.2	1.0
AA239419 P glycoprotein 2	,	-1.2	-1.0	1.1		1.0	1.0	1.0	1.1	-1.0	-1.2	1.3
AA109528 ESTs. Weakly similar to CA1C MOUSE COLLAGEN ALP HA 1(XII) CHAIN PRECURSOR [M.musculus]	1.1	-1.1	-1.0	-1.1	2.2	1.78848~	-1.5	1.0	-1.2	4.1	-1.1	1.0
AA770902 actin, alpha 1, skeletal muscle	-1.0	1.1	-1.1	-1.1		1.1	-1.5	1.1	1.1	1.1	-1.1	-1.2
AA647336 cytochrome P450, steroid_inducible_3a11	1.5	-1.4	1,2	1.1		6.89011~	-1.3	-8.0	-1.0	-1.1	1.2	1.1
AA386758_ESTs	-1.3	-1.3	0.1	-1.3		2.8264	1.1	1.3	1.1	1.1	1.1	-1.0
AA871641 defensin related cryptdin, related sequence 2	-1.0	1.3	-1.4	1,8	2.1	2.0	1.2	1.4	1.2	1.1	1.8	1.6
AA871410 defensin related cryptdin 5	-1.5	-1.1	-1.0	1.8	21	1.8	-1.0	-1.2	1.2	-1.1	1.1	1.0
AA210237 Mus musculus, clone MGC:6377, mRNA, complete cds		1.0	1.0	-1.0	20	1.5	1.3	1.3	1.2	1.4	1.0	-1.0
Al552087 IQ motif containing GTPase activating protein_1	-1.3	-1.1	1.3	1.1	2.0	1.2	-1.2	1.4	1.0	-1.0	1.0	1.1
AA166427_Mus_musculus_germline_imuunoglobulin_gamma_constant_r egion (IgG3) mRNA	-1.3	1.0.	-1.0	<u></u>	o	-1.2153+~	1.3	1.0	1.2	<u>-</u> -	1.	-1.5
AA756136 actin, gamma 2, smooth muscle, enteric	1.1	-1.2	1.1	-1.1		-1.3	1.0	1.2	1.1	1.1	-1.3	1.1
AA239727 ATP-binding cassette, sub-family B (MDR/TAP), member 1		-1.1	-1.1	-1.0	200	1.4	1.2	-1.1	-1.0	-1,2	-1.4	- B
AA469630 choline kinase	17	1.9	-1.4	3.1		1.31548+-	1.3	2.3	202	1.8	2.2	2:1
Al594147 beta-2 microglobulin		1.1	1.2	2.1	20	-1,8	-1.0	-1.1	-1.0	1.3	-1.1	-1.2
AA684403 ESTs	-1.4	121	2.3 05	2.0		2.4	1.5	-1.0	-1.3	-1.3	-1.1	-1.1
AA869219 intelectin	-1.0	-1.3	-1.1	4.7		2.2	-1.9	1.3	1.2	-1.0	1.5	1.8
AA073925 ESTs	1.3		-1.4	2.5	2.0	-1.27077	1.1	1.9	1.6	1.2	1.8	6.
W54383 glutathione S-transferase, mu_2	1.3	1.7	-1.0	-1.5	2.0	1.2	-1.4	1.1	1.2	1.3	1.2	1.0
AA013726 cathepsin J		-1.0	-1.2	. 8.		-1.4	-1.2	1.6	1.2	1.1	-2.1	1.5
AI549624 RIKEN cDNA 0610041E09 gene	1.6	1.9	-1.3	3.6		-1.01549+~	1.1	22 ***	21.7	1.6	2.5	2.3
AISSZ688 ESTS, Weakly, similar to MIA MOUSE MELANOMA DERIV ED GROWTH REGULATORY PROTEIN PRECURSOR [M.musculus]	-1.2	1.2	1.1	1.1		1,7	1.1	-1.2	-1.0	-1.1	-1.5	1.1
AA450725 membrane_metallo_endopeptidase	1.3	-1.3	1.1	-1.1		1.48772~	-1.2	1.2	-1.4	1.1	1.0	1.3
AA870247 mitogen regulated protein, proliferin 3	-1.0	1.0	-1.3	2.0	6	-1.0	1.8	Į.	1.1	1.0	-1.8	1.4
AI892437 transglutaminase 2, C polypeptide	-1.1	-1.2	1.0	1.3		-1.3	-1.0	1.1	-1.2	1.1	-1.1	1.1
Al036411 angiotensin_converting_enzyme	-1.1	-1.0	1.2	1.4		3.92701-21	1.1	-1.2	1.1	80	1.2	-1.3
AA619767 ornithine decarboxylase antizyme	1.3	1.8	-1.0	-1.6		-1.0	-1.2	-1.2	-1.1	1.1	-1.3	-1.2
AA106623 hexosaminidase B	1.1	-1.0	1.3	1.1	9	1.4	1.3	-1.1	1.1	1.0	-1.1	1.1

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M14224 N.mur downstream regulated 1	1.1	1.0	1.0	1.1	1.9	1.0	1.2	1.1		1.0	1.3	2.1
AA624460 actin alcha 2. smooth muscle, aorta		1.2	-1.3	-1.1	1.9	4.3	1.6	1.1	1.1	1.0	-1.2	1.0
W36474 metallothionein 2		-2.2	2.1	1.2	1.9	1,8	1.1	-1.6	-1.1	1.8	-1.9	1.0
AA821963 aspartvi aminopeotidase		1.0	1.1	-1.2	19	1.8	1.1	-1.0	1.0	1.3	1.0	-1.2
W13521 extechrome P450, 2i6		-1.0	1.1	-1.4	181	2.58949+	1.3	-1.3	1.2	-1.0	1.4	1.2
AA413490 transferrin receptor	1.4	-1.3	1.2	-1.0		4.1	1.2	1.2	1.2	-1.3	1.5	1.5
Al594093_Mus_musculus_putative_CAMP_protein_(Camp)_mRNA,_complete_cds		-1.3		1.4	-1.9	-1.14409+~	1.6	1.2	-1.0	-1.2	1.2	-1.3
AA028420 small proline-rich protein 1A	1.3	-1.7	-1.4	-1.5	-1.9	-1.2	-1.9	-1.2	1.0	-1.1	1.3	1.3
AA245987 ESTs	-1.01124+	-1.30375+	1.1	1.29885+	-6,1-	1.12119+-	-1.46943+	-1.02333+	-1.00306+	1.2	1.28207+	1.65354+
A(390129 proteasome (prosome, macropain) subunit, alpha type 2	1.1	1.0	1,3	-1.4	-1.9	1.6	1.1	-1.2	1.2	1.0	1.0	-1.3
	-1.3	1.2	-1.1	1.1	-1.9	-1.40144+*-	-1.0	-1.4	-1.2	-1.2	-1.5	-1.2
AA546964_ESTsWeakly_similar_to_TLM_MOUSE_TLM_PROTEIN_IM. musculusi	1.0	-1.4	-1.1	-1.1	-1.9	1.1	1,4	1.2	-1.4	-1.5	1.2	-1.0
A(605616 ESTs	-1.2	-1.1	1.3	-1.5	-1.9	-2.3	-1.4	-1.4	-1.2	-1.2	-1.5	1.1
AA561934 ESTs		-1.5	-1.4	1.1	-1,9	-1.03655+~	1.3	-1.2	1.1	-1.5	1.0	1.0
A1157093 RIKEN cDNA 2700094F01 gene	-1.0	-1.6	-1.0	-1.1	1.9	-1.1	1.2	1.1	-1.3	-1.4	1.0	-1.1
AA794319 ESTs	1.1	-1.1	1.3	-1.7	-1.9	1.7378~	-1.2	-1.4	-1.3	-1.0	-1.1	1.1
AA433804 ESTs	-1.1	-11	-1.1	-1.2	-1.9	-1.0	-1.0	-1.0	-1.2	-1.4	1.0	1.1
AA754696 immunoqlobulin heavy chain 6 (heavy chain of IgM)	1.6	-1,5	1.0	-1.2	-1.9	-3,2	-1.9	-1.0	-1.2	-1.0	-1.1	4.1-
W09198 calcium binding protein A6 (calcyclin)	1.2	-1.2	-1.2	-1.6	-1,9	-2.4	1.1	1.1	1.0	1.2	-1.2	1.0
AA967824 arginine vasopressin	1.4	-1.6	-1.2	-1.1	-1.9	-2.7	-2.0	-1.4	-1,3	1.4	-1.2	-2.3
AW496194 immunoclobulin kappa chain variable 20 (V20 family)	1,4	-1.2	-1.4	-1.1	-1.9	-2.9	-2.6	1.6	-1.0	1.4	-1.0	-2.7
AA647876 ESTs	-1.3	-1.3	-1.0	1.3	-1.9	1.14107+~	-1.0	-1.2	-1.2	-1.3	1.0	-1.0
AA790455 RIKEN cDNA 3110001120 gene	1.1	-1.1	1.2:	-1.1	1.9	-1.50429-	1.2	-1.1	-1.1	1:0	1.2	1.3
AA068562 RIKEN cDNA 2810417H13 gene	-1.0	-1.5	-1.1	-1.1	1.9	-1.0	-1.0	-1.2	-1.2	7.5	-1.1	-1.2
Al627053 ESTs	-1.3	-1.1	-1.1	1.1	1.9	-1.03772+~	1.3	-1.0	7.1	-1.4	1.1	1.0
Al607043_ESTs,_Weakly_similar_to_S12207_hypothetical_protein_IM.mu sculus]	1,2	-1.2	-1.1	-1.2	-1.9	1.1	1.0	1.1	1.1	-1.3	1.1	-1.2
AI536309 RIKEN CDNA 2210410L06 gene	-1.8	-1.8	-1.4	-2:1	-1.9	1.1	-1.5	2.0	-1.6	-2.1	-1.5	-2.1
AA166386 transducer of ErbB-2.1	-1.0	-1.2	1.3	-2.0	-1.9	11	1.1	-1.2	-11	-1.0	-1.2	1.2
AA414465 ESTs	-1,2	-1.3	-1.0	1.0	1.9	1.2	1.0	-1.0	-1.2	-1.3	1.0	-1.1
AA529377 heat shock protein, 86 kDa 1	1.4	1.0	-1.3	11.9	-1.9	-1.5	1.4	1.3	1.2	-1.0	-1.0	1.3
AA562129_ESTs_Weakly_similar_to_T23699_hypothetical_protein_M04 R2.4 - Caennthahditis_electors [C.electons]	7.0	4.	<u></u>	-1.2	- 1.9 E. Ven	1.1	1.1	1,1	-1.0	1.0	-1.1	£.
Al428582 Public domain EST	1.0	-1.5	-1.1	4.3	1.9	1.2	1.3	1.2 ·	-1.1	-1.1	1.1	1.1

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AA738642 proteasome (orosome macropain) subunit. alpha type 3	12	-1.0	1.4	-1.3	-1.9	-1.5	1.1	-1.1	1.2	-1.1	1.1	-1,2
	1.1	-1.6	-1.0	1.3	ી.9ંં	1.4	1.1	1.4	-1.0	-1.1	1.3	-1.0
A1036487 ESTs	-1.0	1.1	1.1	-1.3	1,9	-1,9	1.0	1.0	-1.0	-1.3	1.1	1.0
Al386181 gamma-glutamyl carboxylase	1.1	-1.3	-1.0	-1.2	-1,9	1.0	-1.0	1.1	-1.2	-13	-1.0	-1.2
AA422743_ESTs_Highly_similar_to_AF091622_1_PHD_finger_protein_3 [H.sapiens]	-1.5		-1:2	1.1		-1.4	-1.2	1.1	-1.1	-1.2	-1.1	1.1
STs	-1.2			1.1	-1.9	-1.27398~	1.8	1.1	-1.1	-1.2	1.1	1.1
	-10	-1.4	-1.1	-1.2	-1.9	1.1	-1.1	1.1	-1.1	-1.3	1.1	1.1
A1429064_ESTs_Weakly_similar_to_S12207_hypothetical_protein_[M.mu sculus]	1.0	-1.5	1.0	-1.1	1.9	1.3	1.	1,2	-1.0	-1.2	1.0	-13
547 RIKEN cDNA 2310031L18 gene	-11	-1.4	-1.1	-1.1	1.9	-1.05207+~	1.1	-1.0	-1.1	-1.4	1.0	1.1
Joi_233,_expressed	-1.2	-1.1	1.1	-1.0	-19	1.12124~	-1.6	-1.1	1.1	-1.3	1.1	1.0
	1.2	-1.1	1.0	-1.8	-1.9	-1.2	1.2	1.1	1.2	1.1	1.1	1.1
GRBA_MOUSE_GROWT 10 [M.musculus]	-1.3	-1.8	-1.2	-1.1	-1:9	-1.29366	-1.3	1.2	1.1	٦.1	1.3	1.3
AA638300 ESTs_Moderalely_similar_to_S12207_hypothetical_protein_[M.musculus]	1.0	-1.2	-1.2	-1.1	-1.9	1.1	-1.2	1.1	-1 1	-1.3	1.0	1.1
krein 26	1.2	1.1		-1.4	-1,9	-1.2	-1,5.	2.8	10.1	1.1	-1.1	-1.4
	1.08777+	-1.50505+ -1.48731+		-1.6	-1.9.	-1.40845+~	-2.12716+	-1.39471+	-1.0	1.1	-1.0	1.1524+
AA727388 ESTs_Moderately_similar_lo_S12207_hypothetical_protein_[M.musculus]	-1.0	-1.1	1.0	-1.1	-19	1.0	1.1	-1.0	1.1	-1.4	-1.0	-1.2
wmus expressed acidic protein	-1.3	-1.5	-1:0	-11	-1,9	-1.49997+~	-1.4	-1.2	-1.5	-1.5	-1.0	
	-1.4	-1.2	-1.2	-1.6	-1.9	-1.2	-1.4	-1.1	-1.3	-1.3	-1.1	-1.2
	-1.2	-1.4		-1.2	-1.9	-1.24163+~	-1.0	-1.1	-1.2	-1.3	1.2	-1.3
le C2, gamma	-1.2	-1.3	-1.3	-1.4	-1.9	-1.42692~	-1.0	-1.1	-1.2	-1.0	-1.0	1.1
n [M.mu	1.0	1.1	1.0	-1.3	1.9	-1.1	-1.2	7.	-1. 2.	4.1-	-1.0	-1.2
ratico foo_cystic_itativata_transmantiane_contratered tegatator_re	1.2	-1,42323+	-1.16278+	-1.4	-1.9	-1.16394~	-1.9	1,2	1.17519+	-1.1	1.0	-1,4
AA673741 DNA segment, Chr 12, ERATO Doi 604, expressed	1.3	-1.0	-1.1	-1.4	1.9	1.87671* .	-1.1	-1.5	-1.2	4.1-	-1.3	-1.3
AA619869 RIKEN cDNA 5730534006 gene	1.1	-1.0	1.1	-1.2	-1,9	-1.1	1.3	1.0	1.0	-1.5	1.0	-1.2
Al390319 ESTs, Weakly similar to apolipoprotein F [H.sapiens]	-1.1	-1.5	1.2	1.1	-1,9	1.3	-1.4	1,0	-1.1	-1.2	1.1	-1.3
Al614000_ESTs	-1.1	-1.2		-1.1	2.0	1.2	-1.2	1.1	1.1	-1.2	-1.0	1.1
AA784176_ESTs_Moderately_similar_to_SPA- 1 like protein p1284 [R.norvegicus]	-1.0	-2.0	-1.2	-1.2	2.0	1.2	1.2	1,3	-1.3	-1,3	1.1	1.1
	-1.1	-1.7	-1.2	1.1	2,0	-1.02813-	-1.3	-1.4	1.3	1.4	-1.0	1.1
AA656612 RIKEN cDNA 4631416G20 gene	-1.1	-1.3	1.1	-1.1	-2.0	-1.2	1.1	1.0	-1.2	-1.4	-1.0	1.1
	-1.2	-1.2	1.0	1.1	. 8	-1.31702+~	1.8	1.0	1.0	-1.2	1.2	1.1
AA023331 adenosine deaminase	1.1	1.1	-11	1.1	2.0	-1.4	1.2	1.2	1.3	1.1	-1.1	1.4

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AA415510 ESTs	-1.0	4.7	1.1	-1.3	-2.0		1.2	1.1	-1.2	-1.2	-1.1	-1.1
		-1.3	-1.2	-1.2	2.0		-1.2	1.1	-1.2	-1.5	-1.0	-1.2
Ts_Weakly_similar_to_NED4_MOUSE_NEDD- M.musculus]		-1.2	-1.0	-1.1	2.0 1.2		1.0	1.3	-1.1	<u>ئ</u> ئ	1.1	-1.2
arginine/serine-rich 5 (SRp40, HRS)		-14	1.2	-4.1	2.0		-1.3	-1.0	1.1	-1.2	-1.1	-1.4
	-1.1	-1.3	1.2	-1.1	2:0		1.2	1.1	-1.2	-1.2	-1.0	-1.3
Weakly_similar_to_AF089896_1_topoisomerase- protein [H.sapiens]	1.1	-1.5	1.0	-1.1	20 20 1.1		-1,1	1.	4.1	-1.2	1.0	-1.3
96db		1,4	-1.5	-1.9	-2.0		1.2	-1.1	1.2	-1.1	1.1	-1.0
		-1.5	-1.1	-1.2	2.0		1.12345*	1.1	-1.2	-1.5	-1.0	-1.2
Moderately_similar_to_S12207_hypothetical_protein_[M.	-1.0	-1.1	1.1.	1.1	2.0		-1.2	1.1	-7.1	-1.4	1.0	1.0
AI596800 ESTs	-1.4	-1.3	-1.1	-1.3	2.0	-1.42466~	-1.0	1.1	-1.3	-1.4	-1.1	-1.2
		-1.6	-1.0	-1.1	-2.0 -1.0		1.0	-1.1	-1.2	-1.4	-1.0	-1.1
arginine-rich protein specific kinase_2	-1.1	-1.0	1.0	1.1	2.0		-1.4	1.1	-1.0	-1.0	-1.2	-1.1
netical_protein_[1.0	-1.3	-1.0	-1.1	20.		1.1	-1.0	1.1	-1.3	-1.1	-1.2
I.musculus mRNA (3C10) for IgA V-D-J-heavy chain		1.0	-1.6	2.7	2.0		-1.1	-1.4	1.5	20	1.1	1.6
AA397221_ESTs_Weakly_similar_to_NED4_MOUSE_NEDD- 4_PROTEIN_IM_musculusi	-1.1	-1.2	-1.0	-1.0	2.0		-1.2	7.	1.0	-1.2	1.1	1.0
similar_to_T46456_hypothetical_protein_DKF		-1.7	1.0	-1.1	2.0		1.0	1.1	-1.1	-1.2	1.1	-1.2
Ai666289 ESTs	-1.1	-1.4	-1.0	-1.1	-2.0 ₹ -1.0		-1.2	1.1	-1.2	-1.2	-1.0	-1.1
nusculus, clone MGC:6888, mRNA, complete_cds	1.1	1.1	1.1	-2.0	2.0		-1.2	ا. تن	-1.2	-1.4	-1.3	-1.1
	1.4	1.1	-1.4	-1.7	2.0		1.4	-1.0	-1.0	-1.0	-1.0	-1.2
		1.1	1.3	-2.1	-2.0		1.3	-1.2	1.2	-1.4	-1.1	-1.2
AA450438 Mus_musculus_mRNA_for_erythroid_differentiation_regulator, partial	-1.0	-1.0	-1.2	-1.5	2.0		-1.7	-1.3	-4.3	-1.6	-1.2	-1.2
AA619114_solute_carrier_family_11_(proton-coupled_divalent_metal_ion_transporters)_member_2	1.1	1.0	1.0	-1.2	-2.0		-1.5	1,4	1.1	1.0	7	-1.0
like	-1.2	-1.4	-1.0	-1.3	2.0 1.0		-1.1	1.1	-1.2	-1.3	-1.1	-1.1
AA549540_ESTs	1.1	-1.4	-1.0	-1.0	2.0		1.4	1.3	4.4	41.4	1.2	1.1
AA066867 RIKEN cDNA 3010002H13 gene	1.3	-1.1	1.0	-1.1	2.0	1.48546~	1.4	6.2-	11	-1.1	-1.7	-1.2
Al608085_ESTs	-1.1	-1.5	-1.1	-1.3	-2.0		-1.0	-1.0	-1.3	4.1-	1.0	-1.2
AA474446_ESTs	-1.3	-1.5	-1.1	1.3	2.0	1.01705+~	1.3	1.1	-1.1	-1.3	1.2	-1.1
AA444672 RIKEN_cDNA_2510001A17_gene	-1.1	-1.0	1:1	-2.3	-2.0		1.3	4.1	1.2	-1.4	1.0	-1.2
AA473972 heterogeneous nuclear ribonucleoprotein H1	1.5	-1.2	1.2	8,	2	-1.17495~	-1.2	1.0		-1.5	1-1	1.1
	1.1	-1.3	1.1	1.1	-2.0		1.3	1.1	-1.1	1,1	1.1	-1.2

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AA638929_ESTs_Moderately_similar_to_S12207_hypothetical_protein_I M.musculusi	1.0	-1.3	-1.0	-1.1	-2.0	£95811**1.1		1.1	-1.1	-1.3	-1.0	-1.2
Al391001 Public domain EST	-1.2	-1.3	-1.0	1.0	-2.0	-1.1	-1.0	1.1	-1.1	4.1-	1.2	-1.0
AA575047 ESTs	-1.3	-1.4	-1.1	1.1	-2.0	1.3	-1.2	-1.1	-1,4	-1.1	1.0	-1.0
A1450530 ESTs	-1.1	-1.3	1.1	-1.3	-2.0	1.2	1.0	-1.1	-1.3	1.4	-1.1	-1.1
AA536789 RIKEN CDNA 1110002B05 gene	1.2	1.0	1.5 .	-1.3	-2.0	1.3	1.1	-1.2	1.0	4.1	-1.1	1.0
AA684191 CDC-like kinase	1.5	-2.1	-1.3	-1.1 🖁	-2.0	-1.4	-1.3	1,6	1.4	-2.1	1.4	1.2
AA549591 ESTs, Highly similar to CRM1 [H.sapiens]	-1.2	-1:7	-1.1	-1.4	2.0	1.4	-1.2	-1.0	-1.4	-1.4	-1.0	-1.1
Al536183 Public domain EST	1.0	-1.1	1.0	1.1	-2.0	1.0	-1.4	1.1	-1.0	-1.2	1.1	-1.1
AA874133 ESTs	-1.2	-1.6	1.1	-1.2	-2.0	1.3	-1.1	-1.1	-1.2	-1.4	-1.0	-1.2
AA884092 ESTs. Moderately_similar_to_S12207_hypothetical_protein_[M.musculus]	1.0	-1.4	1.0	-1.2	2.0	-1.0	1:1	1.0	-1.2	-1.4	-1.1	-1.2
AA672766 Mouse mRNA for TI-227	-1.5	-1.3	-1.0	-1.1	-2.1	1.12734~	-1.1	-1.1	-1.0	-1.3	-1.1	-1.2
AA164064 ESTs	-1.1	7.1-	-1.1	-1.0	-2.1	-1.14579-	-1.37792+	1.2	1.0	-1.1	1.1	1.0
W15606 dynein, axon, heavy chain 11	1.3	-1.3	-11	-2.5	-2.1	-1.8	-1.1	1.0	-1.1	-1.2	-1.2	-1.1
AA450917 RIKEN cDNA 1810005K14 gene	-1.1	-1.0	-1.06093**	-1,4	-2.1	-1.1	1.4	-1.1	1.1	1.1	1.1	-1.1
AA896036 ESTS, Highly similer to GUANINE_NUCLEOTIDE- BINDING PROTEIN BETA SUBUNIT- I IKE PROTEIN 123 IM musculus	-1.2	-1.2	-1.1	1.0	2.1	2.19728~	1.1	-1.1	-1.0	-1.1	-1.1	-1.2
AA914844 Public domain EST	1.3	-1.5	1.0	-1.2		1.0	1.0	1.2	-1.1	-1.3	1.1	-1.1
AA059886 protein phosphatase, EF hand calcium-binding domain 2	1.1	-1.6	-1.1	-1.1	-2.1	1.1	1.02202*	1.2	-1.1	-1.3	1.1	-1.1
AA067797 heat shock protein cognate 70	1.0	-1.1	-1.0	-2.1	-2.1	-1.5		1.3	1.5	1.3	1.0	1.2
AI530648 ESTs	-1.6	-1.1	1.7	-1.2	-2.1	2.50006	(:8	-1.2	1.0	-1.1	-1.0	-1.1
AA619915 RIKEN cDNA 1110015M06 gene	1.2	-1.3	1.1	1.3	.2.1	-1.0	1.8	1.3	1.1	-1.1	1.2	-1.0
AA000282_naked_cuticle_1_homolog_(Drosophile)	-1.0	-1.3	-1.0	1.0	-2.1	1.0	1.0	1.3	-1.1	-1.3	1.2	-1.1
AA607713_Mus_musculus_10_day_old_male_pancreas_cDNA,_RIKEN_full_length_enriched_library, clone:1810009A17, full_insert_sequence	1.1	1.5	-1.2	-1.5	2.1	7. 7.	17	1.4	-1.0	ı	1.5	1.4
AA152940 immunoglobulin kappa chain variable 28 (V28)	1.3	-1.8	-1.5	-1.0	2.1	-3,1	222	-1.3	-1,3	.	-1.1	-2.5
Al640116_ESTs	-1.6	-1.02516+	1.3	-1.1	2.1	1.37609~	1.3	-1.2	-1.1	1.1	-1.0	1.3
AA260035 ESTs	-1.1	-1.3	1.0	1.0	-2.1	-1.1	-1.2	1.2	-1.0	-1.2	1.1	-1.1
AA444576 heat shock protein, 60 kDa	1.1	-1.1	1.4	-1.8	-2.2	-1.2	1.1	1.0	1.1	1.0	-1.1	-1.2
Ai451754 ESTs	1.0	ط.3	-1.0	1.1	2.2	1.3	-1.1	1.3	1.0	-1.1	1.2	-1.1
AI019837 laminin, beta 3	1.1	1.4	-1.1	-1.5	-:1	-2.16452-	1.21069+	1.5	-1.1	1.1	1.1	1.4
AA066404 topoisomerase (DNA) II beta	1:1	-1.2	1.2	2.2	-2.2	1.0	-1.2	1.5	-1.2	-1.5	-1.3	-1.2
AA880295 immunoglobulin joining chain	1.2	-1.5	-1.4	1,12	-2.2	-24	-1.9	-1.1	1.3	1.5	1.4	-1.3
AA200306 ESTs	-1.5	-1.3	-1.5	-1.0	-2.2	1.06091+~	1.1	-1.2	-1.3	-1.3	1.1	-1.1

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Al645264_ESTs_Weakly_similar_to_S29170_annexin_VII monise_IM missulusi	7	7	-	-1.2	-2.2	-1.19222~	1.5	-1.1	1.3	1.5	-1.1	-1.1
a complex			-1.3		-2.2	1.11232~	-2.1	-2.0	1.0	-1.2	4.0	-1.6
				1.3		-1.01004+~	1.4	-1.0	-1.2	-1.4	1.2	1.0
Al463733 ESTs_Moderately_similar_to_S14234_hypothetical_protein mouse_IM musculusi		-1.3	-1.0	-1.2	-2.2	-1.1	1.2	1.1	1.1	4.3	1.0	-1.2
pha 4			-1.3	1.1	-2.2	1.1	-1.0	1.3	-1.3	-1.4	1.2	-1.0
imilar to Ivsophospholipase [M.musculus]		,		-1.0	-2.3	-2.1	1.1	-1.7	-1.0	1.4	-1.1	1.2
			1.1	1.1	-2.3	-1.28142~	-1.6	1.2	-1.0	-1.8	1.0	-1.0
			-1.0	1.2	-2.3	1.2	-1.1	1.3	1.0	-1.3	1.3	1.0
	-	-1.7	1.1	-1.0	-2.3	1.1	1.1	4.1	-1.5	-1.4	1.1	-1.2
	-1.4	1.0	1.2	-1.4	-2,3	1.05832~	-1.53017+	-1.4	1.0	-1.2	-1.2	-1.2
rerecozz_neat_snobr_rere_proteir_e_tensoc_ regulated protein, 78kD)		1.6	2.4	-2.2	-2.4	-1.6	1.0	-1.3	1,2	-1.1	-1.1	-1.2
	1.0	-1.11378+	1.02861+	1.2	-2.4	-1.16147+~	1.9	1.03478+	1.2	1.3	1,1	-1 33715+
		-1.3	-1.2			-1.2	-1.2	4.1-	-1.3	-1.4	-1.1	1.2
ofolate reductase			-1.2	-1.0	-2.5	-2.6	1.1	4.1-	-1.2	1.1	-1.1	-1.7
		-1.2	1.2	.2.1	-2.5	1.2	-1.2	-1.6	-1.2	-1.4	-1.4	-1.3
					-2.5	-1.21294+~	1.1	-1.4	-1.2	-1.2	-1.4	1.1
		-1.1	1.1		-2.5	-3.6	1.2	4.1	-1.2	-1.1	-1.1	-1.0
receptor tyrosine kinase		1.0	1.1	1.0	-2.6	1.01562~	1.6	-1.1	1:1	-1.1	-1.1	-1.1
	-1.5	1.0	-1.3	-1.2	-2.6	1.01664+~	-1.1	-1.3	-1.3	-1.1	-1.2	-1.5
nuclear recentor coactivator 4	1.4	-1.3	1.4	-1.7	-2.7	-1.0	1.1	1.1	1.2	1.3	-1.1	-1.1
				-1.34	-2.7	-2.3	-1.2	2.8	7.2.	1.1	1.0	1.3
otein L26			1.3		-2.7	-1.2	1.2	-1.2	1.1	-1.1	-1.2	-1.5
				-1.5	-2.7	-1.5	-1.2	-1.0	-1.5	-1,1	-1.3	1.2
				-2.1	-2.7	-1.7	-1.1	1.1	1.3	1.1	1.1	1.2
1a2, aromatic compound inducible				-1.1	-2.8	-1.33495~	-1,37353+	-2.4	1.8	1.1	1.2	1.2
nber B			4.1-	-2.1	-2.9	-1.3	-1.6	-1.1	-1.3	-1.1	-1.1	-1.0
alkaline phosphatase 5	857+	-1.15714+	1.38347+	-1.05793+	-2.9	1.52048+~	1.07417+	-1.01637+	-1.07118+	-1.16957+	1.08192+	-1.03494+
AA105866 olutathione S-transferase, alpha 4			1.8 m 8.	-2.4	-3.0	1.3	1.2	1.0	1.3	1.3	-1.1	-1.2
NAI426738_ESTS,_Weakly_similar_to_ACRO_HUMAN_ACROSIN_PRECU	_	-1.6	-1.3	-1.1	-3.2	1.0	-1.0	-1.1	-1.3	-1.3	-1.2	-1.3
s cDNA 2210407P13 gene	+299	-1.39059+	-1.0	1.2	-3.5	-1.03402+~	-1.06819+	1.2	-1.0	1.1		1.3
lfate synthase 2	1.2	-1.2	1.5	1.2	-3.7	-1.4	-1.3	1.4	1.5	1.3	2	1
	-1.0	-1.5	1.0	-1.6	4.	1.6	-1.5	1.1	-1.1	-1.3	1.1	1.0
e-rich protein 2A	-1.0.	-1.1-	-1.4	-1.3	5.5	3.9	1.0	-1.2	-1.2	-1.1	-1.5	1.1
							i					

INTESTINE

TABLE 2

4/327450 obserbolinase A2 group IR pancteas	1.3	18	1.1	-1.8	-5.7	1.01624~	-2.3	-1.6	-1.4	-1.4	-1.1	-1.0
AARZAAOO pancreatic linase related protein 1			4.1-	-1.7	5.9	-1.0	1.2	1.0	1.1	-1.1	1	1.3
AAAOZA10 am dudin			1.1-	-1.6	-6.1	-5.0	1.5	-1.2	-1.3	-1.2	1.5	1.2
AA487010 cip-duciiii AA107101 prostate stem cell antigen			ار دن	-2.1	-6.1	1.51614~	-1.8	2.1	1.0	-1.1	-1.4	4.1-
W19085 annevin A10		-1.7	1-1	-2.3	-8.5	-1.03567~	-1.3	. 1.	1.1	-1.0	1.0	-1.9
A1876007 zarbovul astar linasa		1.8	1.4	-2.3 🐁	8.9	-1.9	-1.3	4.1-	-1.1	1.1	2.0	22
AAGROOFA RIKEN FINA 2210010C04 gene		1.8	-1.3	-2.0	9.5	-1.3	1.8	-1.5	-2.0	-1.4	-1.1	-1.1
AA237703 rat ranameration islat-derived mouse homolog 1		4.	-1.3	-3.9	-11.8	-2.2	1.0	-1.4	-2.7	-1.2	-1.2	-1.2
AA675111 BIKEN CONA 1810007A24 gene	1.4	6.3	-1.0	-2.1	14.0	-1.5	1.0	4.1-	-2.2	-1.2	-1.2	-2.0
A LAELOGO DIVEN AND DOLOGO AND DOLOGO			1.1	-2.5	-14.7	-2.6	1.2	-1.3	-2.4	-1.3	-1.1	-1.3
A 13980AG Funcion A		1.9	1.1	-1.8	-15.9	-2.6	1.8	-1.5	-2.5	-1.1	-1.3	-1.2
A A 200000 divarializate 4 papersatir		2.3	-1.2	5.8	-16.6	-3.3	83	-1.9	4.1	-1.1	-1.2	-1.1
A A 67500 A Claritor of		1.4	-1.2	-2.7	-21.7	-2.2	4.7	-1.9	4:0	-1.4	-1.2	-14
AA717025 Mus musculus 10 day old male_pancreas_cDNA_RIKEN_f		+ T	21.2	27.	-25.5	-5.2	2.1	-1.6	-2.9	1.2	1.7	4.
Midentified initialy, doller to togostiff, tuli insert sequence			1.5	-2.8	-32,0	4.D	2.3	-1.2	4.4	-1.1	-1.1	-1.2
Alaseast relindin D9K		-1.3	1.2	1.5	-53.5	-4.1	1.0	-1.2	-1.1	-1.2	-1.2	1.4
Al894032 trefoil factor 2 (spasmolytic protein 1)		1.8	-1.2	-2.0	-82.1	-1.89777~	-1.4	1.0	4.1-	6.1.9	-1.0	1,4

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STOMACH

stomach	lds	panc	liv	stom	int	100	brain	lung	blad	kidn	pl/ut	mam
ио	PL-	PL. P	PL- 68 BDEnor	PL.	PL. 38 BDEnor	PL. 58 BDEnor	PL- 18 BDEnor		PL- F	PL.	PL- PL- 118 BDEnor	PL.
KEN_CDNA_0810041E09_yeng			1	515 A. V.	33333				444 A. A. A. Salarana	1.6	2.5	2.3
AA617112 ESTS	1.4	4.1	-1.2	3.3	1.7	-1.01971+	1.3	1.6		1.3	87	18
Algo4587_ESTe	1.2	1.3	-1.1	* *	1.5	-1.02494+~	1.9	5.1	1.8	1.3	1.5	1.8
AAE44832_dihydroorotate_dahydroganasa	1.2	1.5	1.0	3.2	1.7.	1.2437+~	1.4	1,8	1.7	1.4	2.0	
AA49850_choline_khase	21	9	-1.4	31	2.0	1.31548+~	1.3	2.3	2.0	1.8	2.2	21
A481882_EST	1.5	1	1.0	5.5	1.4283*	-1.60668+~	1.8	233182*	2,06474* 1	81	2,5	20
A 552902 RIKEN CONA_1700049[01_gane	1.35465+	1.07934+	1.02095+	8.2	1.17207+	-1.33509+~	1,73508+	1.18149+	1.29226+	4.1	1.2	1.13038+
	1.4	7	-1.5	29.	1.8	-1.07432+~	1.8	1.2	1.8	7.5	1,7	i t
10 TO	1.24627+	2,027,25+	-1.0038+	82	1.6	1.10261+~	2.802844	1,783994	f 80094F 1	1.3		18 C
AAS61920 RaibP1, associated Eps_domain_containing_profetion	1.4	1.7	1.7	28	1,5	-1.1	1.2	(B)	10		2.0	
CYTE	1.34106+	1.0	1.1	28		-1.23958+~	1.1	1.8	1.4	1.1	1.5	1.6
OUSE FRIEND VIRUS	1.2		-1.05799+	27	1.2	1.694335	25	e7693+	1.8	1.5	81	
	4.1	1.1	-1.3	2.7	1.6	-1.28917+	1.4	1.4	1,2	1.3		.2
AI687825 RIKEN, cDNA_0710001507 gans	1,4	1.3	-1.3	2.7	1.5	-1.20826-	1,4	1.5	1.	1.3	91	.5
AA146476 Minusculus mRNA (3C10) for 1gA V-D Lineway simin-1.3		1.0	1.6		-2.0	2.4	<u>-</u> -	4.1-		2.0	1.1	1.8
Alissize protein tyrosine phosphatase, receptor type, M.	1.02567+	1.1	-1.25592+	2.0	1.1	1.02178+~	1.2	1.3	1,0	1.1	1.1	1.3
	1.1	1.0	-1.3	-	-1.1	-1.28021+~	23	1.0	-1,2	1.2	-1.2	-1.0
	1.8	1.2	-1.1		1.5	-1.12264+~		1.8	81	1.3	1.8	1.5
λλ688 <i>976</i> ES1°s	1.1	1.8	-1.5	26		1.17361+~	12.0	1,69868.4	1	1.4	1.9	2.1
	1.3		-1.1	5.5		1.30792+-	1.3		1.8	1.2	(7	1.6
	1.3	90	4.1-	2.8	2.0	-1.27077-	1.1		9	1.2	1,9	o.

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STOMACH

1. Annotes 11.		1.0	7	¥	a.	1 12103+~	4.0	91	4.1	13	- 8	
Alexenter			133				1.6	1.3	1.5		1.3	1.6
AAAZAOA Public donam EST	9414+		-1.1		-	.06724+~	1.4	1.3	1.5	1.1	1.3	1.4
	1.		1.0557+	2.5	1.68583+	-1.08065+~	28	1.6	1.7	. 81	2,1	2.1
AA (18079 RIKEN CDNA 28100/80303 (1808)		13	-1.5	2.0	82	1.22798~	1,5	1,5	1.5	1.3	1.5	. 5.1
本語文化 AA216486 E518	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-1.1	2.4		1.2483+-	1.2	16		1.4	1.8	1.9
A482387 ESTS	1.1		-1.3	2.4		-1.10185+~	1.2	1.6	9.1	1.2	1.5	142
AA623060 RIKEN CDNA 2410124L17 pana	1.5	5.	1.1	24	1.36143*	-1.3	1.8	77428*		1.4	2.0	1.9
AISS1943 ESTS. Weskly similar to 102378 scely/CeA.c.	1.2	1.1	-1.4	2.4		1.05496~	1.4		21	21	27	1,8
A470284 Peringitingoning Kinasa F	1.1	1.0	-1.3	2.4		1.3	1.5	1.4	1.5	1.2	1.2	1.3
AAA12779 RIKEN SDNA C330006.08 rene	1.8	8	-1.0	2.4		-1.3	1.3	2.0	81	1.5	1. 1.	47
AA607883 Find Those brotain 101	1.23774+	6:1	-1.38204+	2.4	1.6	1.1254+~	1.85168+	1.432+	1.5	1.2	1.4	17
A1814738 RIVEN - CDNA - 2830301115 gene	1.3	2.07861+ 1.1	1.	2.4	5	.2409+~	2.8	1.4	1.5	1.8	1.5	1.6
AA48848 growth factor etvi (S. cerevistes)		1.8	4.1-	2.4		1.35346+~	1.5	1.4	1.5	1.3	1.5	1.4
Abresent Ests	1.22006+		-1.28881+	2.4	1.48785+	-1.28489+~	1.45708+	1.46404+	1.53133+	1.7	1,57478+	1.32862+
A4623176 E513	1.5	1.5	-1.0	2.4	1.8	-1.30902+~	1.4	2.3	2.1	1.7	2,2885*	1.6
		1.2	-1.2	2.4	1.5	-1.0	1.4	1.5	1.3	1.4	1.3	1.4
AISABAS RIKEN CONA 130005ZMA gane	1.3	1	4.1	2.4		-1.0667~	1.4	1.9	1.8	1.4	1.8	1.6
	1.1	1.5	-1.2	2.3		-1.12759+~	1.4		1,6	1.3	1,8	II.
Al550977 ESTs	-1.0	1.3	-1.1	2.9	87	-1.10355+	1.5	1.6	1.4	1.2	1.5	1.5
AA683789_sirtuin_1_((silent_mating_type_information_regulation_2_homolog	1.1	1.3	-1.2	28 - 1.5		-1.22848+~	1.8	1.2	1.4	1.1	1.3	1.3
AIS49694_ESTs_Highty_similar_to_P300_HUMAN_E1A- ASSOCIATED_PROTEIN_P300_H.sapiensi	1.0		1.3	23 1.3		1.15359+~	-1.1	1.4	1.7	1.4	1.6	8
Al550200 SEC61, alpha subunit 2 (S. cerevisiae)	1.3	1.8	1.1	2.3	1,8	1.28243+~	1.2	9	9.1	1.5	1.4	1.
A/645426 diaphanous homolog 3 (Drosophila)	1.2	1.6	-1.3	13.62		1.01107+	1.8	1.5	1.3	1.2	1.3	1.4
AA231099_necdin	-1.8	1.3	1,1	23	2.1	3.6	1.0	-2.0.	-1.3	-1.2	4.7	1.0
AA530026 ESTs	1.20192+	1.20192+ 1.46056+ 1.03838+	1.03838+	23	43296+	1.18503+~	2,22596+	1.43296+ -1.18503+~ 2.225964 1.35485+	1.36148+	1.3	1.5	1.1

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AISS2240 ESTE	1 2087+	1.5704	-1.18563+	7.3	8.1	-1.26743+~	2.14507+	1,53405+	21	1.8	1,856354	1.8213+
	ŀ		-1.2		1.32145*	-1.2	1.8		1.2	1.5	1.0	1.5
WASP family 1			-1.6	23	1.4	1.40453+~	1.5	1:1	1.4	1.2	1.2	1.3
2900073G15 gene	1.1	1.4	-1.2		1.8	-1.09881~	1.1	1.5	1.3	1.2	1.5	1.6
elated protein 2			1.1	23	1.4	-1.17835+~	1.53081+	1.1	1.5	1.4	1.0	
	2138+	183+	2182+		1.37779+	-1.21258+~	20	1.50959+	1.3697+	1,82061+	2.24475+	1,7053+
	1		-		1.4	-1.04267~	1.1	1.4		1.3	1.8	1.5
					1.8		1.8	1.3	1.1	1.2	6.	1.
Al325781_ESTs_Wasky_similar_to_S37771_ankyrin,_erythrocyte mouse IMmisculisi					1.5	1.11463+~	1.5	1.5	.8	4.1	1.5	1.4
		1.4	-1.22779*	22	1.4	-1.1	1.1			1.2	1.3	1.4
	1.35481+	1,951184	1.04863+	2.2	1,85187+	1.52793+~	1.07014+	f.61878+	17	2.0-	1.5	2.05047+
Highly similar to evaint (R.norvegicus)	1.3	1.2	-1.2		1.2	1.10985+~	1.3	1.2	1.3	-1.1	1.2	1.3
			-1.2	2.2	1.5	1.05245~	1.17392+	1.8	1.5	1.5	1.4	17
74K12 gene	-1.0	1:1	-1.1864+		1.1	-1.19466+~	1.7	1.0	1.1	1.1	1.1	1.
	1.0	1.1	-1.1		1.4	1.2339+~	1.33244+	1.2	1.4	-1.1	1.3	1.5
AA606582 Public domain EST	1.13444+		-1.2	2.2	1.4	1.08581+~	1.8	1.5	1.3	1.3	1.5	1,68536+
15E02 gene	1.0	1.3	1.4	22	1.4	1.87213+	-1.2	1.2	1.1	1.3	1.2	1.8
	1959+	1.3508+	-1.08199+		1.54682+	1.02451+~	1.8·	1.31484+	1.38275+	1.2	9.1	1.40132+
AW210270 ESTs, Weakly, similar, to_T17254, hypothetical_protein_DKF2p5 RRO1022.1 IH saniens		1.3	-1.2	2.2	1.3	-1.1	1.4	1.4	1.4	1,27852*	1.4	1.3
AA412912 ESTs	1.2		4.1-	22	1.5	-1.07075+~	1,9	1.6	1,7	1.2	1.5	1.8
AA068624 hydroxyacid oxidase (alycolate oxidase) 3		1.3	-1.2	2.2	.32102*	-2.4	1.2	1.4	1.3	1.1	1.3	1.5
AA096985 cytochrome P450. 2i5					1.6	1.57788+~	1.4	-1.0	1.5	1.2	1.3	
AA709576 FSTs	1.1	1.1	-1.44348+	2.2	1.5	-1.02969+~	1.5	1.33339+	1.4	1.4	1.1	1.1
AA641551 Mest-linked imprinted transcript 1	7918+		-1.0			-1.14544+~	9	1.6	1.3	-1.1	1.4	1.3
AA000370 RIKEN cDNA 4933438K12 gene	1.3	1.1	-1.5		1.9	1.77842-	1.7	1.4	1.5	1.0	1.3	1.3
AA153231 Public domain EST		1.6	1.0	2.2	1.7	-1.58578*~	1.3	1.8	2.0	1.5	8.1	1.8
AA288247 ESTS, Weakly similar to MRP5 MOUSE MULTIDRUG RESIS TANCE-ASSOCIATED PROTEIN 5 [M.musculus]	1.1	1.4	<u>+</u>	446	1.0	1.11973+~	-1.5	<u>+</u>	1.0	1.	1.3	1.4
AA709668 ESTs	1.2	1.2	-1.1503+		1.6	1.15298+~		4.1	4.1	1.2	1.2	1.2
AA615213_ESTs_Moderately_similar_to_unnamed_protein_product_[H.sapie]	-1.0	1.0	-1.1	2.5	4.1	1.46574+~	+66	1.4		1.2		1.3
Al553232 ribosomal protein S6			1.0		1.2	-1.20582+~		1.6		1,4	2.0	1
AA210580 Mus_musculus_Similar to_RIKEN_cDNA_1500041N16_gene_cl one_MGC:12066, mRNA, complete_cds		1.6	-1.0	7.8	1.3	-1.17168+~	٠,	1,652474	. 5	. 4.1	•	1.3
Al037649 transition protein 1	-1.1	1.2	-1.2	2.1	1.4	-1.3	-1.4	1.5	1.2	1.2	2.0 * 5.5	1 8
AA717167 cytotoxic T lymphocyte-associated protein 2 alpha	1.4	1.8	-1.3	7	1.4	2.1	1,8	-1.1	1.5	4.1-	-1.5	8

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A553356 ESTs_Moderately_similar_lo_T00075_hypothetical_protein_KIAA0		1.8	0.1	r.	īč.	1.06805+	1.8	1,4	1.2	1.6	1.3	1.3
401 [T.Sdpiells]	38003+			de la			-1.1	1.1	1.2	-1.1	1.3	1.4
AAT 10378 TEUTOPIIII			4.7		1.3	-1.00785+~	1.5	1.5	1.4	1.4		1.0
Altoon ESTs			1.01548+	,		-1.28921+~	1.8	1.2	1.2	1.1	1.1	1.1
AMI IOZO ESTS		10	-1.5		·	-1.07437+~	1.4		1.2	1.3	1.4	1.4
Alteration ESIS			1.1			1.20006+~	1.25034+	17.	1.4	1.5	1.5	1.4
ARABASA INUS IIUSCUUS TOBS IIINAA, COIIIPISKS CUS			-2.0			1.1	1.3	-1.2	0.1	1.4	1,8	1.9
AA445000 KINEN CUINA 4052401 CO Belle	-12	1.2	1.3			1.66943-	1.3		-1.3	-1.1	-1.0	1.1
ANASO (OU SYLIAMILI DITIONING PROCESSITY)		1	-1 17581*		1.4	2.1	-1.2	-1.3	1.1	1.0	-1.2	-1.0
Albi 3926 Wist gene Torrology, Chosophinal		1.5	-1.4			1.52602+~	1.3	1.4	1.3	1.2		1.4
AAARAZA DIKEN DNA 11006500 anna		-1.0	1.1		1.3	1.06169+~	1.2	1.3	1.2	1.2	1.3	1.5
AIS94144_DNA_segment_Chr_3Brigham_&_Women's_Genetics_0878_ex		6.	-1.2	2.4	1.4	-1.17655~	1.1	7.5	1.3	1.2	1.2	1.3
prospect Attachment of the MACC-7885 mDNA complete refe		1.3	1.0	2.4	1.1	-1.45989~	7.7	1.5	1.5	1.2	1.5	1.4
Adologo Mus illustutus, cione mooti contrari, compace as	1 4	5.	-1.2	÷	1.3	1.16035+~	1.4	1,77382	1.8	1.4		1.8
AAASAOSI III/Osiii, lisay <u> Luypopude or akeega iiiosoka minorota</u> minoyomo AA67N096 core1 UDP-galactose:N-acetylgalactosamine-alpha-R_beta_1.3-	4.1	1.8	-1.3		f.8	1.14962+~	18	1.7	1.5	1.3	1.8	1.57
Additional programmer in the Albanation profess 1 NIP2	12	1.2	1.1	2.1	1.4	1,70102~	1.3	1.1	1.2	1.1	1.1	1.0
	1 26422+	1.5439+	-1.11429+	i,	1 56356+	1.01168+~	1,84811+	1.29835+	1.4481+	1.4	1.2	1.48751+
AA410551 of illustry illegaliopide cramplace 2	1.1	-1.1	-1.1	Ä	11	-1.1	-1.4	1.2	1,8	-1.0	1.2	1.2
A A 8 2 2 10 C DIVEN CON A 40 2 2 4 1 TO THE B	1.4	1.5	-1.2	2.1	1,4	-1.0	1.4	1.8	1.8	1.4	1.5	1.5
ALESTROS chooping Commune & decalitizes 2	1.4	1.2	-1.3	,	1.4	-1.5		1.5	1.5	1.2	4:1	1.3
AASEGOO seasoyr-congress 7	1.12172+	-1.2816+	1.09121+	2.1	1.62532+	1.62118+- 1.21826+	1.21826+	1.21528+	1.0051+	-1.07124+	-1.28511+	-1.1
AA442021 DIKEN CON MOUSESSE Z	1.4	1.6			1.4	-1.23027~	1.8	17.	1.6	1.4	9'	1.5
AISSOAR ESTE	-1.04537+	1.2052+	-1.0	21-	1.39436+	1.18278+~	-1.03946+	1.19454+	1.2	-1.0	1.3	1.0
AA265101 RIKEN cDNA 1600021C16 gene	1.4	1.2	-1.1	1	1,1	1.03533+~	-1.3	1.3	1.3	1.1	1.3	1.4
AA688667 ESTs. Weakly similar to Inv [M.musculus]	1.2	1.4	-1.35747+	ii K	1.5	1.18935+~	1.4	1.3	1.2	1.0	1.3	
AA516997 kinase suppressor of ras	1.1	1,2	-1.4		1.4	1.17949+~		1.2	1,4	1.2	1.3	1,4
AA254235 complement receptor 2	1.1	1.5	-1.4	1	1.4	-1.02477+~	1.5	1.4	1.2	1.1	1.4	1.3
AA450452 RIKEN cDNA 8430430L24 gene	1.2	1.5	-1,2		1.5	1.29003+~	1.4	1.3	1.5	1.1	1.4	4.1
AA596430 galactose-1-phosphate uridyl transferase	1.3	1.5	-1.0		1.4	-1.08755+~	14	1.6.	1.4		1.4	1.1
AA023720 ESTs	1.2	1.5	-1.1	20	1,2	1.0728+~	1.5	1.5	1.3	1.7	1.5	1.3
AA267824 Public domain EST	1.3	1.6	-1.1	0.5	1.32119*	-1.13095+~		91	1.5	1.3	1.5	1.5
AA607043 RIKFN cDNA 2400007G07 gene	1.1	1.4	-1.1	6	1.5	1.00337+~	8.4	1.3	1.4	1.4	1.3	1.3
AA273401 Public domain EST	1.5	1.3	-1.0	20.0	1.40823*	-1.0	1.3	1.5		1.4		1.8

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ALARER25 RIKEN CONA A330103N21 gene	1.3	1.2	-12	7.1 2 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1.1		1.8	1.4	1.3	1.6		1.3
Al64723 ESTS, Weakly, similar to JH0494 alpha-1-antichymotrypsin-like protein EB22/4 - mouse IM, musculus	12	4.1		20 1.2		11434~		1.4			1,7	[6
AA469724 WW domain binding protein 5	1.3	1.4				1.0	1.1	1,2,7,1	, 0,	1.3		1.6
Je	1.8	1.5	1.0	20 - 1.3		-1.07742-	1.5	1.4	1.3	1.4	1.5	
AA450453 Mus. musculus_Similar_to_hypothetical_protein,_clone_MGC:758 1, mRNA, complete_cds	1.4	1.3	-1.2	1.4		1.02813~	- 4	1.3	9.	1.2	1.5	1.3
AA792297 procollagen, type V, alpha 1	-1.2	1.0	-1.15089*	7.6		1.4	4.1-	1.0	1.2	1.1	-1.1	-1.3
AA105367 period homolog 3 (Drosophila)	1.2	1.1	-1.1	2.0		1.11211+-		1.3	1.3	1.1	1.4	1.4
AA466199 RIKEN cDNA 2410055N02 gene	-1.04614+	1.41714+	-1.26081+	01		-1.0338+~	1	1.2862+	1.2	1,76427+	1,6	1.2
AA823475 ESTs	-1.22121+	1.1	-1.7	9		-1.43639+~	1.3	1.5	1.4	1.2	1.3	1.3
AA638198 gap junction membrane channel protein beta 3	1.2	1.5	-1.1	20 - 1.2		-1.31763~	1.5	F.6.	1.3	1.49755+*	4:1	1.3
AA529248 Mus_musculus, Similar to phosphoprotein regulated by mitoge inic pathways, clone MGC:11752, mRNA, complete cds	1.3	1.4	-1.1	20		-1.2		1.5	1.5	1.2	1.5	.5
AA066256 Public domain EST	1.1		-1.1	20 1.4		1.46053+~	9	1.4	1.6	1.1	1.3	1.5
AA470294 DNA segment, Chr 2, ERATO Doi 435, expressed	1.2		1.1	29-114		-1.0	1.5	1.4	1.3	1.2	1.3	1.2
AA250546 ESTS. Weakly_similar to SFRB_HUMAN_SPLICING_FACTOR_ ARGININE/SERINE-RICH 11 (H.sapiens)	1.3					-1.41089+~	1.5	1.5		1.3	1.7	1.5
AA869166 defensin related cryptdin, related sequence 10	1.0		-1.7	6.7		1.5	1.2	1.2	. 4	1.1	1.8	1.2
Al608071 RIKEN cDNA 2900017D14 gene	1.3	1.5	-1.1	20 1.2		-1.2	1.4	1.5	1.3	1.2	1.5	1.5
AA155097 ESTs		1.1	1.1	20 - 1.2		-1.2	1.4	1,69992*-	2.0	1.2	17 50.	1.6
AA518686_ESTs	1.2	1.4	-1.3	2.0		-1.5	2.0	1.4	1.4	1.2	1.5	1.8
AA616077_ESTs	1.2	1.2	-1.3			-1 10029+~	1.2	1.5	1.3	1.0		1.3
AA204045 Public domain_EST	1.4	1.4	1.1			-1.2		18		1.3	B:	£8
AA212102_ESTs	-1.1	1.3	1.1	2.0		1.16314+~	Ŀ	1.1	1.3	1.1	1.1	1.3
AA058211 ESTs	1.3	1.3	-1.0	1.1		-1.0	1.8	1.3	1.1	1.3	1.2	1.2
AA870247 mitogen regulated protein, proliferin 3	-1.0	1.0	-1.3	6.1		-1.0	-1.8	1.7	1.1	1.0	-1.8	4:1
AA562544 RIKEN cDNA_1110035L05_gene	1.3	1.3	-1.1	2.0		1.0		1.5	1.4	1.3	1.5	1.4
AA210559 ESTs, Weakly similar to T34029 hypothetical protein C32F10. [1 - Caenorhabdilis elegans [C.elegans]		1.3	1.0	1.3		-1.00634~		1,0	1.2	1.3	-1.0	1.2
AA684073_ESTs	-1.0	1.24978*	-1.3			1.12054+~	1.0	1.3	1.1	1.2	1.2	1.3
AA497627_intersectin_(SH3_domain_protein_1A)	-1.6	1.0	1.1	2.0		2.707724-	-1.0	-1.8		-1.2	2.1	-1.2
AA717080_ESTs	1.0	1.2	-1.1			159521+-		1.2	į.	1.1	1.2	1.2
AA244813_calbindin_2	1.4	1.1	-1.5	e.		-1.16196+~	9.1	4.1	1.2	1.3	1.5	
AA265096_ESTs	1.2	1.3	1.1	1.3		-1.08802+~	1.5	1.5	1.4	1.3	1.5	1.5
AI464603 RIKEN cDNA 0710001E13 gene	1.1	1.1	1.0	1.4		-1.08185+~		1.08953+	1,4	1.2	1.4	4:
AA254875_ESTs	1.1	1.1	1.0	2.7		-1.0806+~	-1.11044+	1.4	1.3	1.3	1.2	1.3
AA646049 interleukin 13	1.2	1.4	-1.2	1.5		-1.02129+~ 1.3		1.4	1.3	1.2	1.4	1.2

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15 17 10 -12 20 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15				
1.5 1.7 1.2 2.0 1.2 1.4 1.1 1.2 2.0 1.4 1.4 1.2 2.0 1.4 1.2 1.3 2.0 1.4 1.2 1.3 2.0 1.4 1.2 1.3 1.5 1.5 1.5 1.0 2.0 1.4 1.2 1.0 2.0 1.4 1.2 1.2 2.0 1.5 1.2 1.2 1.4 1.1 1.5 2.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	1.3	1.1	1.2 1.1	1.1
11 14 1.2 20 1.4 1.3 1.4 1.3 20 1.4 1.2 1.4 1.1 5.4 1.2 1.1 1.05228 2.0 1.6 1.2 1.5 1.2 2.0 1.6 1.3 1.4 1.1 2.0 1.3 1.2 1.2 1.2 2.0 1.7 1.2 1.2 1.2 2.0 1.7 1.1 1.0 1.3 1.9 1.5 1.1 1.0 1.3 1.9 1.1 1.1 1.1 1.0 1.3 1.9 1.1 1.1 1.1 1.0 1.3 1.9 1.1 1.2 1.2 1.1 1.0 1.3 1.9 1.1 1.4 1.6 1.1 1.0 1.3 1.9 1.1 1.5 1.7 1.1 1.0 1.3 1.9 1.1 1.6 1.1 1.1 1.0 1.3 1.9 1.1 1.7 1.1 1.1 1.0 1.3 1.9 1.1 1.8 1.1 1.1 1.0 1.3 1.9 1.1 1.9 1.1 1.1 1.1 1.2 1.0 1.3 1.1 1.1 1.1 1.2 1.1 1.9 1.1 1.1 1.1 1.1 1.2 1.1 1.9 1.1 1.2 1.3 1.1 1.1 1.2 1.9 1.1 1.3 1.1 1.1 1.1 1.2 1.1 1.4 1.6 1.1 1.1 1.2 1.9 1.1 1.5 1.9 1.1 1.1 1.7 1.1 1.1 1.2 1.1 1.1 1.8 1.2 1.3 1.1 1.9 1.3 1.3 1.4 1.5 1.0 1.3 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	1.10197+	1.3 f B	1.3	1.5
1.3 1.4 -1.3 20 1.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3	1.4 1.3	1.3 1.4	1.3
1.2 14 1.1 20 12 1.2 1.1 1.1 1.05228 20 1.4 1.4 1.2 1.2 20 1.6 1.3 1.5 1.2 20 1.3 1.3 1.5 1.2 20 1.3 1.4 1.1 1.5 20 1.3 1.5 1.2 20 1.3 1.2 1.2 1.2 20 1.1 1.5 1.2 20 1.1 1.5 1.2 1.2 20 1.1 1.5 1.2 1.2 20 1.1 1.5 1.2 1.2 1.2 1.3 1.4 1.1 1.6 1.1 1.6 1.1 1.6 1.1 1.6 1.1 1.6 1.1 1.6 1.1 1.6 1.1 1.6 1.1 1.1	-1.1	1.5 1.2	1.3 1.5	1.4
1.3 1.5 1.2 2.0 1.6 1.3 1.5 1.2 2.0 1.6 1.1 1.1 1.05228 2.0 1.6 1.1 1.6 1.1 2.0 1.3 1.8 1.7 1.5 2.0 1.3 1.2 1.2 1.2 2.0 1.7 1.2 1.5 1.2 2.0 1.7 1.1 1.6 1.1 1.3 1.9 1.7 1.1 1.6 1.1 1.9 1.1 1.7 1.1 1.0 1.3 1.9 1.1 1.8 1.1 1.1 1.0 1.9 1.1 1.9 1.1 1.1 1.1 1.1 1.1 1.1 1.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1.3	1.3 1.5	-1.2 1.1	1.0
1.3 1.5 1.2 2.0 1.6 1.2 1.6 1.0 2.0 1.3 1.1 1.6 1.1 2.0 1.3 1.3 1.4 1.1 2.0 1.2 1.2 1.2 1.2 2.0 1.2 1.2 1.2 1.2 2.0 1.7 1.1 1.6 1.1 2.0 1.7 1.1 1.6 1.1 2.0 1.7 1.1 1.0 1.3 1.9 1.2 1.1 1.1 1.0 1.3 1.9 1.2 1.1 1.1 1.1 1.0 1.9 1.1 1.2 1.2 1.1 1.0 1.9 1.1 1.1 1.1 1.1 1.0 1.9 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.2 1.2 1.1 1.1 1.1 1.4 1.2 1.1 1.1 1.2 1.1 1.5 1.1 1.1 1.1 1.6 1.1 1.1 1.1 1.7 1.1 1.1 1.1 1.1 1.1 1.1 1.2 1.1 1.1 1.1 1.1 1.2 1.1 1.1 1.1 1.1 1.2 1.1 1.1 1.1 1.1 1.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	-1.6	1.1	1.1 -1.1	1.1
1.2 1.6 -1.0 2.0 1.3 1.8 -1.1 1.5 20 1.3 1.8 -1.7 -1.5 20 1.2 1.2 1.2 1.2 2.0 1.2 1.2 1.5 -1.2 2.0 1.2 1.1 1.6 -1.4 2.0 1.7 1.1 1.6 -1.4 2.0 1.7 1.1 1.0 1.3 1.9 1.5 1.1 1.0 1.3 1.9 1.2 1.1 1.1 1.0 1.3 1.9 1.1 1.1 1.1 1.0 1.3 1.9 1.1 1.1 1.1 1.1 1.0 1.3 1.9 1.1 1.1 1.1 1.0 1.3 1.9 1.1 1.1 1.1 1.0 1.3 1.9 1.1 1.1 1.1 1.1 1.0 1.3 1.9 1.1 1.1 1.1 1.1 1.0 1.3 1.9 1.1 1.1 1.1 1.1 1.2 1.3 1.9 1.1 1.1 1.1 1.1 1.2 1.3 1.9 1.1 1.1 1.1 1.1 1.2 1.9 1.1 1.1 1.1 1.1 1.2 1.9 1.1 1.1 1.1 1.1 1.2 1.9 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	-1.306+~ 1,59994+	7.88984+ 1.5	1.4	2,11351+
1.6	-1.0	1.5	1.3 1.5	1.5
1.3 1.4 1.1 20 1.3 1.5 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	-1.3	-1.51858+ -1.3	-1.0 -1.5	-1.3
1.2 1.7 1.5 2.0 1.5 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.3	1.5	1.3 1.B	H.B
1.2 1.4 1.1 2.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	-1.4	-1.2 1.1	-1.2 1.4	1.3
1.2 1.2 1.2 2.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.2	1.2	1.1	1.6
1.2 1.5 1.2 2.0 1.7	-1.2	7.6	1.3 1.5	1.3
1.1 1.6 -1.4 2.0 1.7	1.0	1.5 1.4	1.3 1.6	1.8
1.5 1.5		-1.0 1.2	1.1 1.1	1.3
147814* -1.0 1.3 1.0 1.16813* 1.16813* 1.1 1.2 1.2 1.2 1.2 1.3 1.1 1.2 1.2 1.3 1.1 1.2 1.3 1.1 1.3 1.1 1.3 1.1 1.2 1.3	1.1	1.3 1.4	1.2 1.4	1.8
1.2 1.3 1.1 1.9 1.2 1.1 1.5 1.2 1.1 1.5 1.5 1.2 1.1 1.5 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.1 1.5 1.5 1.1 1.5	3* -1.30242~ -1.1	2,14498* 2.0	1.6 2.57948*	8. 2.0
1.15678+ 1.2 1.13 1.85 1.75 1.75 1.15	-1.0	1.4 1.3	1.1 1.3	1.3
1.15678+ 1.2 1.1 1.0 1.3 1.4 1.5 1.4 1.0 1.0 1.3 1.1 1.0 1.3 1.1 1.1 1.0 1.0 1.3 1.2 1.1 1.1 1.2 1.2 1.2 1.2 1.2 1.3 1.2 1.3 1.3 1.4 1.2 1.3 1	1.8	1.1	1.0 -1.1	1.2
1.4 -1.07408+ 1.0 1.9 1.1 1.5 1.3 1.1 1.0 1.3 1.3 1.2 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.3 1.2 1.3 1.3 1.3 1.3 1.5 1.5 1.3 1.5	1.1	1.4 1.2	1.0	1.3
1.55p58	-1.59695+	1.0 1.2	1.3 1.0	1.3
1,4 1,6 -1,1 1,8 1,2 1,2 1,1 1,1 1,2 1,2 1,1 1,2 1,1 1,2 1,2 1,3 1,2 1,3 1,2 1,3 1,2 1,3 1,2 1,3 1,2 1,3 1,4 1,5	-1.0	1.5	1.1	4.1
1.1	1.8	1.4	1.3	1,55793*
12 1.2 -1.13647+	2.19728+** -1.39628+ 1.1	1.1	1.1	1.2
1.5 1.5 1.9 1.4 2.12.4+ 1.4 1.2.4+ 1.4 1.5.4+ 1.5 1.4 2.12.4+ 1.2 1.4 1.5.4+ 1.5 1.4 1.5.4+ 1.5 1.5 1.5.4+ 1.5 1.5 1.5.4+ 1.5 1.5 1.5 1.5.4+ 1.5	~ 1.2	1,29569+ 1,3	1.2 1.2	1.3
1.4 1.2 -1.1 1.9 1.3 1.16127+- 1.2 1.4 -1.2 1.6 1.5 -1.0538+- 1.0 1.1 -1.2 1.6 1.5 -1.0538+- 1.0 1.3 1.15501+* 1.9 1.3 -1.26545+- 1.1 1.2 1.3 1.15501+* 1.0 1.3 -1.26545+- 1.1 1.1 1.1 1.1 1.0 1.1 1.1 1.1 1.1 1.1	1.09749+	-1.90264+ -1.5	-1.1	-1.2
1.2 1.4 -1.2 3.5 1.5 -1.0538+~ -1.0 1.1 -1.2 78 1.3 -1.79549+~ 1.0 1.3 1.2 1.3 1.5 -1.01587+~ 1.2 1.3 1.15501+* 1.3 1.29545+~ 1.2 1.3 1.4 1.0587+~	-1.0	1.4 1.5	1.3 1.3	1.2
1.0 1.1 -1.2 1.3 1.5010-1.3 1.29549-1.3 1.29549-1.3 1.155010-1.3 1.29546-1.3 1.205566-1.3 1.2055666-1.2 1.2055666-1.2 1.2056666-1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1.4	1.5 1.5	1.2	1.4
1.0 1.3 1.15501+* 1.3 1.129545+ 1.1 1.2 1.3 1.15501+* 1.3 1.129545+ 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.1	1.2	1.2 1.1	1.1 1.2	1.2
1.2 1.3 1.15501+* 1.3 1.29545+ 1.4 1.0 1.4 1.0 1.50*	1.0	-1.0 1.1	1.0 -1.1	1.1
1 0582	1.3	1.3	1.0 1.2	1.2
7.1	-1.0582* 1.1	1.5 1.5	1.3 1.3	1.3
-1.0 1.1 -1.4	-1.1	1.4	1.2 1.3	1.4

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	,;			10 11		-1 0885+~	ro.	5.	1.4	6.	4.	1.3
AA510659 ESTs						1			,			A
AA798385_ESTs	-1.1	1.2	-1.1			1		11.00	5.7			
AA438040 Public domain EST	-1.1	1.1	-1.1		55	1.38343~	-1.1	1.2	1.3	1.1	1.1	1.2
00070160 FSTs	1.2	4.	-1.1	9.5		1.31659~	1.5	1.4	1.3	1.1	1.5	1.3
AIR44670 ECTs		1.2	-1.1	1.9	1.2	.2	1.9	1.2	1.2	1.2	1.1	1.0
A1450460 ESTS		4.	-1.1		1.3	-1.2	1.1	16	1.1	1.2	1.5	1.4
A 101-00 FC 101-		1 02324*	-1.0		1.1	1.47107+~	-1.65524+	1.6	-1.2	-1.1	-1.6	-1.1
ABOUTUS ESTS ARGUMAN MARCHINE Alpha IMAGE:3404411 MRNA nartial eds		1.2		1.1		-1.16368+~	1.8	1.1	1.1	1.2	1.3	1.3
		1.1881*			1.5	1.06588+~	1.5	17	1.3	1.6	1.4	1.3
ANGENTIAL TOTAL CONTRACTOR CONTRA		1.5	-1.5	8	1.5	1.0011+-	1.4	1.3	1.1	1.2	1.6	1,7
AAZTI 192 KIREN COUNT ZOUGO SENE AIGAGAA DIKEN ANA 463422013 GENE		1.3	-1.1		1.3	1.17508+~	1.5	1.4	1.4	1.1	1.2	1.3
A1780680 ESTe	129+	1.0	1.2	1.8	1.5	1.21967+~	1.1	1.2	1.1	-1.0	-1.0	1.2
A A 2 TO B S TO T S TO		1.6			1.3	-1.02764+-	1.2	1.5	1.2	1.1	1.5	1,8
AAA88472 BIKEN CONA 2410003C20 gene		1.3	1.1	1.9	1.3	-1.17707+	1.2	1.2	1.1	1.0	1.3	1.6
Add 38136_nuclear_localization_signal_protein_absent_in_velo-cardio-fooisi		1.5	1.2	1.9	1.3	-1.04778+~ 1.3	1.3	1.5	1.5	1.3	1.3	1,3
ALSONAR ESTS		1.2		1.9	1.2	1.00816+~	1.03689+	1.5	1.3	1.1	1.5	1,277,271
AMAIN AMAIN THE THE PARTY AND	110	0 7	-1.2		1,2	-1.09183+~	1.1	1.5	1.3	1.3	1.2	1.2
AAAZSSO I Tilybutetical protein, mixed-array AAAZSSO I Tilybutetical protein, mixed-array AAAATOTSE Mus_musculus_mRNA_for_b,b-carotene-9',10'-dioxygenase_(b-dioxyll_rene)	7,5	1.5	1.0			-1.1	1.4	1.5	4.7	1.5	(* £)	1.6
AIA64636 FSTs	1.0	1.2	-1.5		1.5	-1.27046+~	1.5	1.1	1.2	1.39713*	1.1	1.2
AA805221 ESTs	1.1	1.1	1.0	93,000	1.2	1.32121~	-1.3	1.3	1.4	1.1	1.2	1.5
AIS54057 RIKEN - ONA 1810059.110 pene	1.3	1.4	-1.2	1.9	1.5	-1.2	-1.2	1.4	1.3	1.3	1.2	1.2
AIG14440 ESTs Moderately similar to xylulokinase IH.sapiensi	1.5	1.0		1.8	4.1	1.2004~	-1.2	1.2	1.4	1.3	1.1	1.6
AIA64729 FSTs	-1.2	1.2	-1.2	1.9	4.1	-1.14563+~	1.3	1.2	1.2	1.2	12	1.2
A 1844454 reduced in netenerlaneis transporter	£	-1.1	-1.8	1.9		1.11125~	1.3	1.2	1.2	2.2	1.5	1.9
AAARERA FOTE	1,21114+	1.1		mi	1.2	-1.11004+~	-1.15296+	1.6	1.1	1.3	1.3	1.2
AA60A44 BIKEN CHAA 20103051 05 gene	1.4	1.5	-1.2		1.3	1.1	1.3	1.4	1.3	1.1	1.4	1.3
AAA15106 ESTS	-1.09609+	1.16002+	-1.07077+		1,49956+	1.8243++	1.51513+	1.10119+	1.175+	1.0364+	1.0	1,19102+
AAABBABA ESTS Waskly similar to type III colladen IM musculusi	-1.3	-1.1	91		1.36706*	2.52341	-1.3	-1.3	-1.0	1.2	-1.4	-1.3
AAAAAA ESTE	1.1	1.1			1.5	-1.28705-	1.6	1.4	1.2	1.2	1.1	1.2
AA104837 office inclined provide factor	1.1	1.5			1.5	-1.3	1.3	1.8	1.5	1.5	1.4	. 8 1
A 10,000 autholin like protein	-18	1.3			1.3	-1.00202+~	1.5	1.3	1.2	1.2	1.3	1.3
ALOXIONO CALIBILITING PLOTEIL	,	1.5				-1.01691+~	1.6	1.4	1.0	1.2	1.1	1.2
A1045104 KINEN COINT 20100 19100 Bene	13	-16				- 969/6	-2.3	-1.2.	1.5	1.1	1.2	1.5
Alocoota gilucose-o-pilospiratase, cataryas	1.0	1.2	-12			-1.14396+~ 1.8 = =		7.5	1.2	1.1	1.1	1.3
Albasou4 Ebis	1			*								

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12 147 -11 148 112 113 -114 -115 114 -115 115 115 115 115 115 115 115 115 11	Sgs	5.3	3	504		+	0	7:			2 .	2 .	2 4
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1, 1, 1, 1, 1,		1.2	-1.4	-1.2	8.	1.3	1.3	-1.1	-1.0	1.3	-1.2		-1.0
10 10 10 11 14 15 16795- 188 11 11 11 11 11 11 11		ار در	-1.3	<u>-1</u>	15	1.2	-1.12718+~	-1.12138+	-1.3	1.1	-1.0	1.1	4.1
14 17 10 19 13 11 11 11 11 11 11		10	1.0	1.7	18	1.4	-1.16793~	1.8	1.1	1.1	1.1	1.2	1.2
NGSO1 1.2		-	**	0		1.3	-1.1	1.1		907	1.4	1.6	1.4
1.3 1.4 1.0 1.5 1.0 1.5 1.0 1.5	K520.1	,	1	4	o u	1.8	1.52356+~	1.3	1.2	1.3	1.0	1.0	1.3
126679+ 13 16 18 12 1-108664-1-1 15 14 1.1 1.1 1.1 1.2 1.1 1.2 1.3	Caenorhabdius elegans (Celegans)	13	4 4	10	3.1	1.5	1.07517*	1.0	1.8	1.5	1.3	1.5	1.2
1, 1	AA/US/20 DIVA SEGMENT OF 1. C. LIVING OF 1. C.	1.25679+	1.3	-16	91	1.2	-1.06995+~	-1.1	7.5	1.4	1.1	1.3	1.4
1.3 1.0 1.1 1.2 1.2678+- 1.1 1.3 1.1 1.0 1.2 1	AA517801 STS Weakly similar to E64778 probable membrane protein what a Escharichia roli If roll	1.7	1.	-1.2	8.1	1.2	-2.00749~	-7:	1.4	1.2	1.1	1.2	1.5
se_edfly 1.2 1.4 1.8 1.6 1.4 1.2 1.4 1.2 1.4 1.2 1.		-1.3	1.0	1.1	8.0	1.2	-1.26078+~		1.3	1.1	-1.0	-1.0	1.1
1.1 1.4 1.2 1.2 1.0	se_activ	1.2	1.2	4.1	1,9	1.8	1.4225~	1.7	1.3	1.3	1.7	1.2	1.2
1.3	ed protein 12-4	1.1	1.4	-1.2	14	1.4	-1.07+~	1.0	1.3	1.2	1.2	프	1.4
14 - 14 - 12 12 100 12 12 14 15 12 14 15 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.0 1.2 1.0		1.3	1.1	1.1	18	1.4	-1.0806+-	1.3	1.04052+	1.1	1.1	1.2	1.4
14 11 1.0	AA396053 ESTs. Moderately similar to CYP2C40 [M.musculus]	1,4	1.4	1.2	6	1.2	-1.0	1.2	4.1	1.5 5.	1.2		1.5
1.2 1.06017+ 1.2 1.2 1.16400+ 1.47888+ 1.09682+ 1.2 1.0 1.3 1.0 1.3 1.3 1.0 1.3 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.1 1.1 1.1 1.2 1.1 1.1 1.2 1.1 1.1 1.2 1.1 1.1 1.2 1.1 1.1 1.2 1.1 1.		1.4	1.1	-1.0	æ	1.2	-1.07647+~		1.2	4.1	1.3	1.3	1.3
11 -1.5 -1.3 -1.9 -1.3 -1.0 -1.3 -1.3 -1.4 -1.3 1.5 1.3 1.9 -1.4 -1.1 1.2 -1.1 -1.2 -1.1 1.0 -1.1 1.6 -1.9 -1.4 1.26078+- -1.3 -1.1 -1.1 -1.1 1.0 -1.24729+ -1.7 -1.9 -1.1 1.0257+- -1.16076+ -1.62152+ -1.1 -1.1 1.0 1.3 1.1 -1.9 -1.9 1.3 -1.1 1.1 1.1 1.2 1.0 -1.8 -1.9 -1.9 -1.0 -1.9 -1.0 -1.9 -1.0 1.1 1.2 -1.2 -1.9 -1.0 -1.7 -1.0 -1.9 -1.0 1.1 1.2 -1.2 -1.9 -1.1 -1.6 -1.3 -1.2 -1.3 -1.3 1.1 1.0 -1.3 -1.1 -1.6 -1.4 -1.7 -1.0 -1.1 -1.1 1.0 -1.3 -1.1 -1.9 -1.2 -1.4 -1.4 -1.4 -1.4 1.0 -1.3 -1.1 -1.9 -1.2 -1.4 -1.4 -1.4 -1.4 1.0 -1.3 -1.9 -1.8 -2.28973- -1.2 -1.4 -1.4 -1.4 1.1 -1.5 -1.5 -1.9 -1.5 -1.1 -1.5 -1.3 1.1 -1.5 -1.5 -1.5 -1.5 -1.1 -1.5 -1.1 1.1 -1.5 -1.5 -1.5 -1.5 -1.4 -1.4 -1.4 1.2 -1.5 -1.5 -1.5 -1.5 -1.5 -1.4 -1.4 1.3 -1.5 -1.5 -1.5 -1.5 -1.5 -1.4 -1.4 1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.4 1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.4 1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 -1.5 1.5 -1.5 -1.5 1.5 -1.5 -1.5 1.5 -1.5 -1.5 1.	AA020415 placental specific protein 1	1.2	1.06017+	-1.2	1.5	1.2	-1.16409+~		1.09682+	1.2	1.0	-1.4	1.3
1.1 1.2 1.3 1.9 1.4 1.1 1.2 1.1 1.2 1.1 1.1 1.2 1.1 1.2 1.1 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3	AA414213 upstream binding protein 1	1.1	-1.5	-1.3	-1.9	-1.3	-1.0	-1.3	-1.3	-1.4	-1.3	-1.3	-1.2
15 13 13 14 16 1.2 1.2 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.1 1.0 1.0 1.1	AA414750 abl-interactor 1	-1.1	-1.2	-1.3	-1.9	-1.4	-1.1	1.2	1.1	-1.2	1.7	1.1	-1.1
1.0	AA783355 small EDRK-rich factor 2	1.5	1.3	1.3	-1,9	₹.6	1.2	-1.2	-1.2	1.0	1.2	-1.2	-1.2
1.0 1.24129+ 1.7 -1.9 1.1 1.0257+- 1.16076+ 1.62152+ 1.1 1.2 1.0 1.3 1.1 1.9 1.6 1.4 1.0 1.7 1.1 1.1 1.1 1.0 1.0 1.3 1.1 1.9 1.5 1.1 1.1 1.1 1.1 1.1 1.2 1.0 1.8 1.6 1.9 1.6 1.7 1.0 1.9 1.0 1.7 1.0 1.9 1.0 1.2 1.5 1.1 1.1 1.2 1.0 1.1 1.6 1.1 1.2 1.0 1.3 1.1 1.1 1.1 1.2 1.0 1.3 1.9 1.0 1.1 1.6 1.1 1.0 1.1 1.1 1.1 1.1 1.0 1.3 1.9 1.9 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	AA413684 RIKEN cDNA 1300014E15 gene	1.0	-1.1	1.6	-1.9	-1.4	1.25078+~	-1.3	-1.1	-1.1	-1.1	1.1	1.2
1.0 1.3 1.1 1.9 1.6 1.4 1.0 1.7 1.1 1.0 1.0 1.1 1.0 1.0 1.1 1.1 1.1 1.2 1.0 1.9 1.3 1.1 1.1 1.1 1.1 1.2 1.0 1.9 1.9 1.0 1.1 1.1 1.1 1.1 1.2 1.0 1.9 1.0 1.7 1.0 1.3 1.2 1.0 1.1 1.2 1.0 1.3 1.2 1.0 1.1 1.2 1.0 1.1 1.2 1.0 1.1 1.2 1.0 1.1 1.2 1.0 1.1 1.2 1.0 1.1 1.2 1.0 1.1 1.2 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	AAA14286 RIKEN CONA 1700016K02 gene	-1.0	-1.24129+		-1.9	-1.1	1.0257+~	-1.16076+	-1.62152+		-1.2	-1.2	-1.3
III.A_(PR 1.1 1.1 1.1 1.1 1.1 1.1 1.2 -1.0 -1.6 -1.9 -1.9 -1.0 -1.9 -1.0 -1.9 -1.0 -1.2 -1.6 -1.1 -1.0 -1.7 -1.0 -1.3 -1.1 1.2 -1.3 -1.2 -1.2 -1.0 -1.1 -1.2 -1.3 -1.3 -1.2 -1.1 -1.1 -1.2 -1.4 -1.4 -1.7 -1.0 -1.1 -1.1 -1 -1.0 -1.3 -1.2 -1.4 -1.4 -1.7 -1.1 -1.1 -1 1.0 -1.3 -1.9 -1.2 -1.4 -1.4 -1.7 -1.4 -2.0 -1 1.0 1.3 -1.9 -1.8 -2.26977 - 1.2 -1.4 -1.4 -1.7 -1.3 -1 1.0 1.3 -1.9 -1.8 -2.7 -1.5 -1.1 -1.2 -1.3	AA606943 clutathione peroxidase 4	1.0	1.3	1.1	-1.9	1.6	1.4	-1.0	1.7	-1.1	1.0	-1.3	-1.3
Ariant chain 1.0 1.8 1.6 1.9 1.5 2.7 2.8 1.0 1.1 1.0 1.0 1.1 1.2 1.0 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.2 1.1 1.2 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.3 1.2 1.1 <t< td=""><td>AA268171 protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), aloha isoform</td><td>1.0</td><td>-1.1</td><td>-1.0</td><td>4.0</td><td>1.3</td><td>-1.1</td><td>1,1</td><td>1.</td><td>1.1</td><td>1.2</td><td>1.1</td><td>-1.1</td></t<>	AA268171 protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), aloha isoform	1.0	-1.1	-1.0	4.0	1.3	-1.1	1,1	1.	1.1	1.2	1.1	-1.1
kemia 1.2 1.5 1.1 1.9 1.0 1.7 1.0 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.0 1.3 1.2 1.0 1.3 1.2 1.0 1.3 1.2 1.0 1.3 1.2 1.0 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.1 </td <td>AA759679 la-associated invariant chain</td> <td>-1.0</td> <td>-1.8</td> <td>-1.6</td> <td>6,1</td> <td>1.5</td> <td>3.7</td> <td>-2.8</td> <td>-1.0</td> <td>-1.9</td> <td>-1.0</td> <td>-1.3</td> <td>-1.4</td>	AA759679 la-associated invariant chain	-1.0	-1.8	-1.6	6,1	1.5	3.7	-2.8	-1.0	-1.9	-1.0	-1.3	-1.4
kemia 1.3 1.2 1.2 1.9 1.0 1.1 1.2 1.0 1.1 1.2 1.0 1.1 1.1 1.2 1.3 1.2 1.3 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.1 1.1 sisted protein, RP/EB family, member 1 1.0 1.3 1.4 1.4 1.4 1.7 1.0 1.1 1.1 12 1.0 1.3 1.9 1.8 2.26973~ 1.2 1.4 1.4 1.2 18 16 16 17 19 17 1.1 1.2 1.3	W83121 legumain	1.2	-1.5	7.	61.	-1.0	17	-1.0	-1.3	-1.1	1.2	-1.3	-1.1
ikemia -1.5 -1.1 -1.6 -1.1 -1.8 -1.3 -1.2 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3 -1.1 -1.2 -1.3	Al594339 nuclear factor I/C	-1.3	-1.2	-1.2	6,1-	1.0	1.7	-1.2	-1.0	-1.3	-1.2	-1.2	4.1-
/ IEB family, member 1 1.0 -1.3 -1.1 -1.9 -1.4 -1.4 -1.7 -1.0 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1	AA116994 promyelocytic leukernia	-1.5	-1.1	-1.1	1.9		-1.6	-1.3	-1.2	-1.3	-1.3	-1.2	+-
/EB family, member 1 10 -1.3 -1.1 -1.9 1.2 -1.4 1.3 1.0 1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -	AA671029 FK506 binding protein 4 (59 kDa)	<u>+</u>	1.2	1.0	1.9	4.1-	4.1-	11.7	-1.0	-1.1	-1.1	4.1-	-1.2
-1.2 1.0 1.3 1.9 1.8 1.2.56973~ 1.2 1.4 1.4 1.2.0 1.8 1.8 1.5 1.1 1.1.2 1.1.3	/EB family, member	1.0	-1.3	1.1	6	-1.2	4.1-	1.3	1.0	1.1	111	1.0	-1.1
1.2 -1.1 -1.2 -1.3	A1036489 cyclin G	-1.2	1.0	1.3	1.9	-1.8	-2.26973~	1.2	4.1.4	4.1	-2.0	7.0	17.7
	Allo48040 claudin 4	-1.6	1.5	-2.1	-1.9		-2.7	1.5	1,1	-1.2	-1.3	-1.2	-1.2

TABLE 2

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A 7704000	.3	-14	1.	-1.9	1.0	-1.0	0.1	1.2	1.1	-1.1	1.0	-1.1
A A A REGOOT DIVEN ON OND DO A POPE	1.2	1.2	1-1	1.9	-1.2	-1.5	1.1	1.2	1.0	-1.2	1.0	-1.04125*
AAABOSA ALIMAHima paravides 2 pesidonens 1	1.3	-1.0	1.2	-1.9	1.1	-2.4	-2.5	-1.5	1.1	4.1	-1.5	1.5
AAA4550 DIXEN CONA 481000AN24 pene	1.2	1.2	1.7	ंध (१)	-1.1	-1.42227+~	1.9	1.1	1.3	1.2	1.0	-1.0
A1120070 BIKEN CONA 2410030E09 cene	1.2	1.3	1.1	-19	-1.6	-1.3	1.0	7.8	1.1	-1.2	-1.5	-1.2
AA108736 cytochrome c oxidase subunit VIIa 3	1.1	-1.0	1.5	-1.9	-1.2	-1.1	1.0	-1.3	1.0	1.0	-1.2	-1.1
AA44AA4 amarin	1.3	1.4	-1.0	-1.9	1.1	-1.0	-1.1	-1.1	-1.0	1.1	-1.1	-1.2
A A 74 6807 evnentonbyein	1.6	-1.3	-1.5	-1.9	-1,3	-1.3	1.4	1,7	-1.5	-1.3	-1.2	-1.4
AAARAAT ESTS	-1.3	-1.5	1.1	1.9	-1.1	-1.0	-1.1	-1.1	-1.2	1.1	-1.2	-1.3
W15971 FK506 hinding protein 2 (13 kDa)	-1.0	-1.0	-1.1	-1.9	-1.2	-1.4	-1.2	4.1-	-1.3	-1.0	-1.3	1.1
AA051479 Public domain EST	-1.2	-1.6	-1.1	-1,9	9.7	-1.1	-1.1	-1.3	-1.2	1.3	-1.2	-1.2
AA008425 adaptor-related profein complex AP-3, sigma 2 subunit	-1.5	-1.3	-1.3	-1.9	1.1	-1.2	-1.0	-1.1	-1.2	-1.1	-1.2	-1.2
W44862 clinathone S-transferase mil 6	1.2	1.1	1.5	-1.9	1.3	1.2	1.2	-1.1	1.1	1.3	-1.0	1.0
A 1922ag7 inequirative growth factor 2	-1.2	-1.8	-1.4	-1.9	-1.5	1,4	-1.5	-2.6	-1.2	-1.6	-1.2	-1.8
AA727960 keratin complex 1 acidic gene 18	0.	1.5	-1.2	-1.9	-1.1	1.0	-1.7	-1.0	1.1	-1.2	-1.2	1.0
A 1892334 ribosomal protein 15	1.3	1.4	1.1	-1.9	-1.2	1.1	1.2	1.1	1.3	-1.2	-1.1	-1.0
AA599377 heat shock profein 86 kDa 1	4.1	1.0	-1.3	4.9	-1.9	-1.5	1.4	1.3	1.2	-1.0	-1.0	1.3
AAR71749 FSTs. Weakly similar to 149759 Hrs - mouse [M.musculus]	-1.5	-1.2	-1.4	-1,9	-1.1	4.1-	1.3	4.1-	-1.4	-1,5	-1.1	-1.0
Al645415 mini chromosome maintenance deficient (S. cerevisiae)	-1.3	-1.5	-1.3	-1.9	-1.4	-1,2	-1.8	-1.4	-1.2	-1.2	-1.3	-1.3
AA415905 micleolar and coiled-body phosphoprotein 1	1.1	4.4	1.3	6,1-	1.2	-1.0	-1.4	-1.0	-1.0	1.1	1.7	-1.2
A428588 RIKEN CDNA 3110039B05 gene	-1.3	-1.5	-1.2	-1.9	-1.2	1.4	1.0	-1.3	-1.4	7.	4.1-	-1.4
AA067069 histocompatibility 2. T region locus 9	1.2	-1.2	1.8	-1.9	1.4	-1.3	1.1	-1.1	-1.1	1.1	-1.0	-1.2
AA674445 lectin, galactose binding, soluble 9	1.0	-1.0	1.5	-1,9	-1.2	1.7	-1.4	-1.0	1.3	-1.2	-1.0	-1.0
AA003005 CD151 anticen	-1.4	-1.5	-1.3	-1.9	-1.1	-1.3	-1.2	-1.2	-1.4	1.1	-1.2	-1.3
A181682 RIKEN cDNA 3021401A05 gene	-1.2	-1.3	-1.3	-1.9	-1.4	-1.5	1.1	1.1	-1.2	-1.4	-1.0	-1.0
AI892472 RIKEN cDNA 0610011D08 gene	-1.1	1.1	1.2	6,	-1.6	-1.2	-1.5	-1.2	1.1	-1.2	-1.7	1.1
A(385457 retinol binding protein 2, cellular	-2.0	-2.1	-1.6	-1.9	1.5	1.0 0.1	-1.3	-1,9	91-	-1.9	-1.5	1.7
Alogoga torsin family 3, member A	-1.1	-1.2	-1.3	-1.9	-1.2	-2,24409+~	-1.0	-1	-1.3	-1.3	1.7	-1.1
Arrest of variant formation made of the protein, apria journalaning, the second of the	_	2.0	1.1	-1.9	1.1	-1.2	1.2	1.0	1.1	4.1	1.0	-1.0
AA549290 Public domain EST	1.4	1.2	-1.0	-1.9	-1.56322+	-1.27906+~	1.5	1.7	1.0		7.	1.1
AA097806 0-8-methylguanine-DNA methyltransferase	-1.2	1.2	-16	-1.9	1.3	-2.3	1.0	-1.1	1.7	-1.2	1.1	-1.1
AA824095 RIKEN CDNA 2610205H19 gene	-1.0	-1.2	1.3	ંં 6.1-	-1.3	1.2	-1.7	-1.9	1.1	1.0	4.1-	4.1-
AAB19950 Cyclin	1.1	-1.2	1.1	1.9	-1.1	-1.1	1.5	4.1-	5.7	1.1	-1.1	1.1
AA250087 proteosome (prosome, macropain) subunit, beta type_8 (large	7	<u></u>	1	-1.9	. 0.	.3.6	7.5	-1.2	-1.1	1.2	-1.0	-1.2
multifunctional profease //		,:!										

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TABLE 2

WO 03/058201

				0	-	-14	2 2	4.1-	4.	-1.2	-1:2	1.2
AA030661 kinesin light chain 2	5. 6.	1 +	1 6			2.12582-	-1.2	1.3	1.0	1.1	1.2	1.4
Al536281 foricin				9.1-		-1.2	-1.4	-1.2	-1.3	-1.3	-1.4	-1.4
W1000 mast cell protesse o				6.1		4.1-	1.2	-1.1	1.2	-1.1	1.1	-1.0
AA46966/ tumor rejection amigen gpso			1.2	2.0		-1.2	1.3	1.1	1.0	-1.0	1.1	-1.1
AA684319 protein tyrosine priosprialase 4a i		-1.2	4 1-	1		-1.3	-1.1	-1.3	-1.5	-1.3	-1.2	1.0
Al553118 ESIS			-	2.0		-1.24216~	1.4	-1.0	-1.0	-1.3	-1.0	-1.2
AASOU/39 potassium chairnel, sublatiny ry, member z			13	-2.0		-1.2	1.2	-1.4	-1.0	-1.2	-1.4	-1.0
AA600581 ribosomal protein L444		4.7	23	-2.0	2.0	-2.4	1.5	-1.0	-1.3	-1.3	-1.1	-1.1
AA664403 ESTS		1285+	1.3	20	-1.3	1.15376+~	-1.33094+	-1.2	-1.5	1.2	-1.3	-1.2
AA68038/ inactive A specific iralisatipus			1.7	-2.0	-1.4	-1.1	1.1	-1.6	-1.0	1.1	-1.0	-1.2
AAZ61440 lupus neprinus-associated peprine			1.1	-2.0	-1.1	-2.7	-1.6	-1.1	-1.0	1.0	-1.0	1.2
W08321 Inhibitor of DNA binding 1		7.2	6.	-2.0	-1.9	-1.1	1.1	-1.2	-1.1	-1.0	-1.2	1.2
AA166386 transcuced of Enders		9	-1.2	-2.0	-1.0	-1.5	-1.0	-1.2	-1.1	-1.4	-1.3	-1.2
AA43/783 apysia ras-refated libitious buttons		1,	1.0	-2.0	1.5	- 6 b	1.4	1.0	1.2	1.4	-1.3	-1.2
AA067003 glutathione 5-fransferase, ifful 1		1,	1 33999*	-2.0	-1.3	1.4	1.3	1.0	1,3	1.8	1.2	-1.1
AA066634 lactate denydrogenase 2, B chain		1.2	-11	-2.0	-1.0	1.4	1,4	1.1	1.1	1.2	1.0	-1.0
AA606826 actin, gamma, cytopiasmic	- 7	4 8	-12	-2.0	-1.1	-1.6	-1.2	-1.2	-1.5	-1.3	-1.3	-1.3
A1121405 H2.0-like homeo box gene	7.0	5 6	1.5	-2.0	-1.1	-1:1-	4.1-	-1.0	1.0	-1.0	-1.0	-1.1
AA437457 methionine aminopeptidase	5 6	2 -	1 -	2.0	-1.4	-1,3	1.2	1.0	1.0	1.0	-1.0	-1.2
W17786 spinocerebellar ataxia 10 homolog (numan)	5 .		-	-2.0	-1.0	1.1	1.2	-1.7	-1.0	-1.1	-1.2	-1.0
AA619894 diazepam binding inhibitor	10	- 7	+	-2.0	1.1	-1.3	-1.2	-1.2	-1.2	1.1	-1.2	-1.3
AA185212 ES1s	1.5	12	4	-2.0	-1.0	-1.3	1.4	-1.3	-1.0	-1.1	-1.2	-1.1
AI89323/ RIKEN CLINA UNIQUUSU IU GEITE	17	1 3	14	-2.0	-1.1	-1.31126~	1.1	-1.6	-1.6	-1.7	4.1-	-1.6
AA67459Z ESIS	1.6	-1.7	-1.4	-2.0	-1.4	-1.4	-1.2	4 4	4.1-	-1.4	-1.2	-1.2
AA420UST ESIS	-14	4.1-	ر. ئ	-2.0	-1.1	-1.3	1.1	-1.3	-1.5	-1.3	-1.1	-1.2
AA8/440/ KINEN CONA TITOGOOGO WEEK	23	1.6	-1.3	-2.0	9.5	-1.3	360 1	-1.5	-2.0	-1.4	1.1	-1.1
AASSESSA KINEN CONA ZETOOTOGO BENE ALEGAMENTA MINE STOOT STOOT BENEVALUE OF STOOT BENEVAL	;	1.1	1.1	-2.0	-2.0	1.1	-1.2	-1.5	-1.2	-1.4	-1.3	-1.1
Alooz/45 Mus illustudes, cione moo.cood, filtra y compress des	1.6	-1.6	-1.1	-2.0	-1.1	-1.1	-1.2	-1.5	-1.4	-1.3	-1.4	4.1-
AA(34030 option receptor, signia i	-7- -7- -8- -7- -8- -7- -8- -8- -8- -8-	-1.2	1.06589*	-2:0	-1.2	1.3	-1.1	-1.1	4.1-	-1.1	1.1	1.0
AA9Z0156 max binding profess	ε - ,	1.5	4.1-	-2.0	-1.3	-1.2	-1.1	-1.3	-1.6	-1.5	-1.5	-1.6
AA1/46/5 E5 IS	, <u>-</u>	4-	-1.2	2.0	-1.1	-1.3	-1.3	-1.4	-1.4	-1.6	-1.3	<u></u>
AADABUBZ ESTS	φ. 7	-16	-1.6	-2.0	-1.2	-1.4	-1.1	-1.1	-1.5	-1.3	-1.2	-1,3
W13098 natruretic peptide receptor	2		10.	20	81	4,1-	1.3	-1.1	<u>+</u> :	4.1	-1.2	1.2

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AA062452_ESTS_Moderately_similar_to_C211_HUMAN_PUTATIVE_SURF ACE_GLYCOPROTEIN_C210RF1_PRECURSOR_IH.saplens	1.1	1.1	1.3	-2.0	-1.1	1,1	1.3	-1.2	-1. 2.	4.	-1.1	1.1
AI390138 RIKEN cDNA 3930401B19 gene	-1.4	-10.7	-1.1	-2.0	-1.2	-2.1	-1.3	-1.2	1.5	-1.9	-1.3	-1.1
AA437424 Public domain EST	1.0	1.1693+	1,4	-2.0	-1.2	-1.16472+~	1.31017+	-1.3034+	1.1	-1.3	-1.0	1.2
W36498 amelogenin	1.2	1.2	1.1	-2.0	1.1	-1.3	1.1	-1.1	1.0	1.1	-1.2	-1.0
A1390970 RIKEN cDNA 2310020F24 gene	-1.6	-1.5	-1.5	-2.0	-1.1	-1.36726~	-1.0	-1.3	-1.3	-1.5	-1.3	-1.4
AA437633 RIKEN cDNA 2210401F17 gene	-1.2	-1.2	1.4	-2.0	-1.1	1.0	-1.3	-1.7	-1.1	1.1	-1.2	-1.2
AA711419 POU domain, class 2, transcription factor 1		1.4		-2.0	1.1	-1.08813~	-1.4	1.0	-1.2	-1.2	-1.1	-1.1
AA138836 myxovirus (influenza virus) resistance 1	1.0334+	-1.48994+	-1.39873+	-2.0	-1.18242+	1.16979+~	-1.06713+	1,1	-1.1	-1.1	1.1	-1.8
AA422762 ESTs	4.1-	-1.3	-1.2	-2.0	-1.3	-1.2	-1.0	-1.1	د . 6:	-1.2	-1.2	-1.2
AA822609 ribosomal protein L27a		1.1		2.0	-1.5	1.0	1.2	-1.1	1.1	1.0	-1.2	-1.0
AA606665 Finkel-Biskis-Reilly murine sarcoma_virus_(FBR-MuSV) ubiquitously expressed (fox_derived)		1.4		-2.0	1.1	1.00729+**	-1.1	-1.2	۲.	1.0	-1.3	-1.0
AA465951 RIKEN cDNA 9130022E05 gene	-1.6	-1.6	-1.2	-2.0	1.2	-1.0	-1.1	-1.1	-1.4	-1.3	-1.3	-1.2
AA624488 prothymosin alpha	1.3	1.0	1.2	-2.0	-1.8	-1.2	-1.1	-1.2	-1.2	-1.1	-1.1	-1.1
AA771675 runt related transcription factor_2	-1.4	-1.4	-1.2	-2.0	-1.4	-1.3	-1.1	-1.2	-1.4	-1.6	-1.1	-1.1
W18330 tropomyosin 2, beta	1.2	-1.3	1.0	-2,0	1.2	1.1	-3.5	-1.5	1.1	-1.1	-1.3	-1.4
A(606650 calmodulin	1.1	1.4	-1.1	-2.0	1.5	-1.1	1.3	1.2	1.1	-1.0	-1.ò	-1.2
AIB94032 trefoil factor 2 (spasmolytic_protein_1)	-1.1	1.8 ા⊹્	-1.2	-2.0	-82.1	-1.89777~	-1.4	1.0	-1.4	-1.9	-1.0	1.4
AA106338 Public domain EST	1.1	1,1		-2.0	1.3	-1.1	1.0	-1.1	1.2	1.2	-1.1	-1.0
A1047049_ESTs	-1.4	1.0	-1.2	-2.0	1.0	-1.29793+~	-1.0	-1.3	5.7.	-1.2	-1.3	1.0
AA414427_RIKEN_cDNA_9430015P09_gene	1.3	1.2	1.4	-2.0	-1.8	-1.2	1.1	1.0	1.1	+-	1.0	-1.0
AA175784 ESTs	-1.3	1.02041+	-1.1	-2.0	1.1	-1.20227+~	1.05224+	1.08166+	-1.0	1.0	1.2	1.4
AA414116 signal recognition particle 9 kDa	1.2	1.4	1.1	-2.0	-1.3	-1.4	-1.3	4.1-	1.0	1.1	-1.2	1.0
AA008228 peroxisomal farnesylated protein	-1.4	-1.9	-1.3	-2.1	1.0	1.1	-1.2	-1.2	-1.4	-1.0	-1.1	-1.2
AA444231 ribosomal protein S5	1.3	17	1.2	-2.1	1.1	-1.3	1.6	-1.1	1.2	1.3	-1.0	-1.0
AA199056 Public domain EST	-1.7	-1.6	-1.3	-2.1	-1.1	-1.1	-1.0	-1.4	-1.2	1.1	-1.3	-1.2
AA619820_EST_AA536654	1.2	-1.2	1.1	2.1	1.1	-1.6	-1.0	1.1	1.1	1.0	-1.0	-1.0
AA471862 myasin VI	1.1	-1.2	-1.0	-2.1	-1.2	1.1	1.1	1.0	1.1	1.1	-1.0	1.1
A1536352 G protein-coupled receptor, family C, group 5, member B	-1.3	-1.7	-1.4	-2.1	-2.9	-1.3	1.8	1.1	-1.3	1.1	-1.1	1.0
Al604685 ubiquilin-like (sentrin) activating_enzyme_E1A	-1.5	-1.4	-1.5	-2.1	1.20761*	-1.4	1.0	-1.5	-1.4	-1.4	-1.3	-1.2
W14484 Public domain_EST	-1.2	-1.3	-1.2	-2.1	1.0	1.2	-1.0	-1.0	-1.1	1.1	-1.2	-1.3
AA065602_ribosomal_protein_L8	1.0	4.1	1.3	-2.1	1.1	-1.0	1.1	-1.3	1.0		-1.4	-1.0
AA596514 interferon gamma induced GTPase	1.2	1.1	1.5	2.1	-1.2	-1,58973~	1.5	-1.6	1.0	1.2	-1.2	1.1
AI594147_beta-2_microglobulin	1.8	1.1	1.2	-2.1	2.0	-1.8	-1.0	-1.1	-1.0	1.3	-1.1	-1.2
AI326556 FMS-like tyrosine kinase 1	11	-1.3		2.1	1.1	1.0	1.1	-1.0	-1.3	1.2	9.	-1.5

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TABLE 2

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28 substrate in neurons 2 -1.4 -1.2 -1.3 -1.2 -1.3 -1.1 -1.0 -1.1 -1.0 -1.1 -1.0 -1.1 -1.2 -1.2 -1.2 -1.2 -1.2 -1.3 -1.1 -1.4 -1.1 -1.4 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		4935+~ 614~	١	1.3	1.5		1.0	1.2
-1.4 -1.2 -1.3 -1.7 -1.5 -1.2 -1.4 -1.1 -1.1 -1.1 -1.5 -1.2 -1.7 -1.4 -1.4 -1.7 -1.4 -1.4 -1.2 -1.0 -1.1 -1.1 -1.3 -1.1 -1.1 -1.3 -1.1 -1.1 -1.2 -1.1 -1.4 -1.5 -1.1 -1.4 -1.3 -1.0 -1.3 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2		4935+~ 614~			-1.3	-1.2		1.2
1.3 1.1 1.3 -1.4 -1.5 -1.2 -1.4 -1.4 -1.3 -1.7 -1.4 -1.4 -1.7 -1.6 -1.5 -1.2 -1.0 -1.4 -1.2 -1.0 -1.4 -1.1 -1.0 -1.1 -1.1 -1.2 -1.1 -1.4 -1.5 -1.1 -1.4 -1.5 -1.1 -1.3 -1.2 -1.1 -1.3 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2	2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1		4935+~ 614~			(
1.7 -1.5 -1.2 1.4 -1.1 1.1 1.1 -1.4 -1.3 1.7 -1.4 -1.4 1.4 -1.6 -1.5 1.1 -1.0 -1.1 1.1 -1.6 -1.1 1.1 -1.6 -1.1 1.1 -1.2 -1.4 1.1 -1.5 -1.4 1.1 -1.5 -1.4 1.1 -1.5 -1.7 1.1 -1.2 -1.7 1.1 -1.2 -1.7 1.1 -1.2 -1.7 1.1 -1.2 -1.7 1.1 -1.2 -1.7 1.1 -1.2 -1.7 1.1 -1.2 -1.7 1.1 -1.7 -1.2 1.1 -1.7 -1.2 1.1 -1.7 -1.2 1.1 -1.7 -1.2 1.1 -1.7 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 <tr< td=""><td>2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1</td><td></td><td>4935+~</td><td>1.3</td><td>-1.2</td><td>7.7</td><td>-1.4</td><td>-1.1</td><td>-1.2</td></tr<>	2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1		4935+~	1.3	-1.2	7.7	-1.4	-1.1	-1.2
1.4 -1.1 1.1 -1.1 -1.4 -1.3 1.1 -1.5 1.2 -1.2 -1.6 -1.4 -1.2 -1.0 1.4 1.1 -1.3 -1.3 1.1 -1.3 -1.1 1.1 -1.2 -1.1 -1.6 -1.7 -1.4 -1.1 -1.2 -1.1 -1.3 -1.2 -1.1 -1.3 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2	21 21 21 21 21 21 21 21 21 21 21 21 21 2		4935+~ 614~	1.0	-1.5	-1.6	-1.5	-1.5	-1.4
4.1 -1.4 -1.3 1.1 1.5 1.2 1.2 -1.6 1.5 1.2 -1.0 1.4 1.1 -1.3 -1.3 1.1 -1.3 -1.1 1.1 -1.3 -1.1 1.4 -1.2 -1.4 1.1 -1.2 -1.1 1.4 1.3 -1.0 1.1 -1.2 -1.1 1.1 -1.2 -1.1 1.1 -1.2 -1.1 1.1 -1.2 -1.1 1.1 -1.1 -1.2 1.1 -1.1 -1.2 1.1 -1.1 -1.2 1.1 -1.1 -1.2 1.1 -1.2 -1.2 1.1 -1.2 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.2 -1.2 1.1 -1.2 -1.2 1.1 -1.2 -1.2 1.1 -1.2 -1.2	2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1		614~	-1.4	1.2	-1.0	1.0	-1.0	-1.1
1.1 1.5 1.2 -1.7 -1.4 -1.4 -1.6 -1.5 -1.5 -1.2 -1.0 1.4 -1.1 -1.3 -1.7 -1.1 -1.3 -1.7 -1.4 -1.6 -1.1 -1.6 -1.7 -1.4 -1.1 -1.2 -1.1 -1.3 1.2 -1.1 -1.3 1.2 1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.2 -1.1 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.2 -1.1 -1.2 -1.1 -1.1 -1.2 <td< td=""><td>2.1</td><td></td><td></td><td>-1.8</td><td>-2.1</td><td>-1.0</td><td>-1.1</td><td>-1.4</td><td>-1.4</td></td<>	2.1			-1.8	-2.1	-1.0	-1.1	-1.4	-1.4
-1.7 -1.4 -1.4 -1.4 -1.6 -1.5 -1.2 -1.0 1.4 -1.1 -1.3 -1.3 -1.1 -1.3 -1.1 -1.1 -1.6 -1.1 -1.1 -1.2 -1.1 -1.4 -1.2 -1.1 -1.3 1.2 1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 <tr< td=""><td>2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1</td><td></td><td></td><td>1.1</td><td>-1.6</td><td>1.1</td><td>1.1</td><td>-1.5</td><td>-1.2</td></tr<>	2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1			1.1	-1.6	1.1	1.1	-1.5	-1.2
14 -1.6 1.5 1-2 -1.0 1.4 1.1 -1.3 -1.3 1.1 -1.3 -1.7 1.4 -1.6 -1.1 1.4 -1.7 -1.4 -1.7 -1.7 -1.4 -1.7 -1.7 -1.4 -1.3 1.2 -1.1 1.1 -1.2 -1.1 1.1 -1.2 -1.1 1.1 -1.1 -1.0 1.1 -1.1 -1.0 1.1 -1.1 -1.0 1.1 -1.1 -1.0 1.1 -1.1 -1.0 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.2 -1.2 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 <tr< td=""><td>2.1</td><td></td><td></td><td>1.0</td><td>-1.6</td><td>-1.3</td><td>-1.3</td><td>-1.4</td><td>-1.3</td></tr<>	2.1			1.0	-1.6	-1.3	-1.3	-1.4	-1.3
1.2 -1.0 1.4 1.1 -1.3 -1.3 1.1 1.0 1.1 -1.1 -1.3 -1.7 1.4 -1.2 -1.1 -1.6 -1.7 -1.4 -1.1 -1.2 -1.0 -1.3 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.2 -1.1 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.0 -1.2 -1.2 -1.2 -1.1 -1.1 -1.0 -1.2 -1.2 -1.2 -1.2 -1.1 -1.0 -1.2 -1.2 -1.2 -1.2 -1.1 -1.0 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.1 -1.0 -1.2 -1.1 -1.0 -1.2 -1.2 -1.2 -1.2 -1.1 -1.2 -1.2 -1.2 -1.2 <td< td=""><td>-2.1 -2.1 -2.1 -2.1 -2.1</td><td></td><td>-1.2</td><td>1.0</td><td>-1.5</td><td>-1.4</td><td>-1.1</td><td>-1.4</td><td>-1.3</td></td<>	-2.1 -2.1 -2.1 -2.1 -2.1		-1.2	1.0	-1.5	-1.4	-1.1	-1.4	-1.3
1.1 -1.3 -1.3 1.1 10 1.1 1.1 -1.3 5.7 1.4 -1.2 -1.1 -1.6 -1.7 -1.4 -1.1 -1.2 -1.0 1.4 1.3 -1.0 1.4 1.2 1.1 1.1 -1.2 1.1 1.1 -1.1 -1.0 1.1 -1.1 -1.0 1.1 -1.1 -1.0 1.1 -1.1 -1.0 1.1 -1.1 -1.0 1.1 -1.1 -1.0 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.1 -1.0 -1.2 1.2 -1.2 -1.2 1.1 -1.0 -1.2 1.2 -1.2 -1.2 1.1 -1.0 -1.2 1.2 -1.2 -1.2 1.1 -1.2 -1.2 1.1 -1.2 -1.2 1.1 -1.2 -1.2	-2.1		-1.5	-1.3	-1.4	-1.0	1.1	-1.2	-1.1
1.1 1.0 1.1 -1.1 -1.3 t.7 1.4 -1.6 -1.1 -1.6 -1.7 -1.4 -1.1 1.2 1.2 -1.3 1.2 1.1 1.1 -1.2 1.2 -1.1 -1.1 -1.1 -1.2 1.2 -1.1 -1.1 -1.1 -1.2 1.2	2.1		-1.1	-1.0	-1.1	-1.1	1.0	-1.1	-1.3
1.1 -1.3 4.7 14 -1.6 -1.1 1.1 1.2 -1.4 -1.1 1.6 1.2 1.4 1.3 -1.0 -1.3 1.2 1.1 1.1 -1.2 1.1 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 -1.2 -1.0 -1.2 -1.1 -1.1 -1.0 -1.2 -1.0 -1.2 -1.1 -1.1 -1.0 -1.2 -1.2 -1.0 -1.1 -1.1 -1.0 -1.2 -1.2 -1.0 -1.1 -1.0 -1.2 -1.2 -1.0 -1.0 -1.1 -1.1 -1.0 -1.2 -1.0 -1.0 -1.1 -1.1 -1.0 -1.2 -1.1 -1.0 -1.1 -1.1 -1.0 -1.1 -1.1 -1.0 </td <td>-2.1</td> <td></td> <td>-1.2</td> <td>1.2</td> <td>1.1</td> <td>1.2</td> <td>1.2</td> <td>-1.1</td> <td>1.1</td>	-2.1		-1.2	1.2	1.1	1.2	1.2	-1.1	1.1
14 -1.6 -1.1 1.1 1.2 -1.1 -1.6 -1.7 -1.4 -1.1 1.6 -1.2 1.4 1.3 -1.0 -1.3 1.2 1.1 1.1 -1.2 1.2 -1.1 -1.1 -1.0 1.1 1.0 1.2 1.1 1.1 1.1	-2.1	-1.7	2.0	-1.2	-1.1	1.4		-1.1	1.1
1.1 1.2 -1.1 -1.6 -1.7 -1.4 -1.1 1.8 1.2 -1.3 1.2 1.1 1.1 -1.2 1.2 -1.1 -1.1 -1.0 1.1 1.0 1.2		1.3	1.41297~	-2.0	-2.0	-2.2	3,55726** -1.0		1.3
-1.6 -1.7 -1.4 -1.1 1.6 1.2 1.4 1.3 -1.0 -1.3 1.2 1.1 1.1 -1.2 1.2 -1.1 -1.1 -1.0 1.1 1.0 1.2	-2.1	1,13744* -3	-3.3	-1.1	1.1	-1.1	1.1	1,1	1.3
-1.1 1.6 1.2 1.4 1.3 -1.0 -1.3 1.2 1.1 1.1 -1.2 1.2 -1.1 -1.1 -1.0 1.1 1.0 1.2	-2.1	-1.3	-1.3	-1.2	-1.2	-1.5	-1.2	-1.3	-1.2
1,4 1,3 -1,0 -1,3 1,2 1,1 1,1 -1,2 1,2 -1,1 -1,1 -1,0 1,1 1,0 1,2	-2.1	-1.1	-1.1	1.3	-1.1	1.0	1.1	-1.2	1.1
-1.8 1.2 1.1 1.1 -1.2 1.2 -1.1 -1.1 -1.0 1.1 1.0 1.2	-2.1	-14.0	-1.5	1.0	-1.4	-2.2	-1.2	-1.2	-2.0
1.1 -1.2 1.2 1.2 -1.1 -1.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	-2.1	-1.2	-1.14522+ 1	1.1	-1.1	-1.2	-1.1	-1.3	-1.3
-1.1 -1.1 -1.0 1.1 1.0 1.2	-2.1	-2.5 1.2		-1.2	-1.6	-1.2	-1.4	-1.4	-1.3
1.1 1.0 1.2	-2.1	1.2 1.0		1,6	1.4	1.1	1.1	1.7	1.4
	-2.1	1.0 1.1	1	-	-1.1	1.4	-1.2	-1.0	-1.2
AA674987 RIKEN cDNA 1110038G14 gene	-2.1	1.2	1.5	-1.3	-2.1	-1.4	-1.4	-1.8	-1.2
1.4 -1.5 1.2	-2.1	-2.7	-1.7	11	1.1	1.3	1.1	1:1	1.2
AA123007_2-5_ oligoadenylate_synthetase-like	-2.2	-1.1	-2.2	-1.1	1.3	-1.1	-1.1	-1.1	-1.1
-1.4 -1.3 :1.5	2.2	-1.0	-1.4	1-1	-1.4	-1.4	-1.3	-1.3	-1.9
-1.1 1.3 -1.1	-2.2	-1.0	-1.0	-1.3	-1.4	-1.4	-1.3	-1.4	-1.2
W11185 ribosomal protein S15 -1.2	-2.2	-1.0	-1.2	1.2	-1.3	-1.3	-1.1	-1.2	-1.2
Al789568 potassium_voltage-gated_channel_subfamily_Q, member_1 1.21639+ 1.3 -1.42732+	732+ -2.2	1.0	- ~+58580'1	-1.33325+	1.31433+	1.09021+	1.1	-1.01845+	-1.5
4 -1.5 -1.5	-2.2	-1.2	-1.38447~ 1	1.2	-1.1	-1.7	1.6	-1.3	-1.3
-1.2 1.2 1.2	-2.2	-1.4	-1.14572+~ 1.1		-1.3	-1.3	-1.3	-1.1	-1.0
1.5 1.4 -1.2	2.2	-1.3	-1.1	-20	1.0	1.1	1.1	-1.2	1.0
-1.6	2.2	-1.2	1.4	1.2	-1.2	-1.7	1.7	-1.4	-1.6

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							1.5	+	7.0	-	5	10
	1.0	-1.3				<u> </u>	4 ,		a	a .	٠ <u>٠</u>	۵.
AA674784 Mus musculus mosg protein (Mosg) gene, complete cds	-1.6	-1.9	-1.9				-1.2	4.1-	0.1	9		0:1
, 78kD)	1.1	1.8	-2.4	-2.2	2.4	-1.6	1.0	-1.3	1.2		4.1	-1.2
	7.5	-14		-2.2	43.1146"	-1.06656~	1.0	-1.2	-1.6	1.0	-1.0	-1.5
	1-	-10		-2.2	-1.2	-1.4	1.1	-1.0	1.3	1.1	-1.1	1.1
מי כימטטלומומת טוסיפוי	-	1.5		2.2	1.1	1.1	-1.2	-1.5	-1.1	1.4	-1.2	-1.2
	1.	2.5			-2.2	1.0	-1.2	-1.5	-1.2	-1.5	-1.3	-1.2
	۵. *	1 2			-1.2	-1.3	1.3	-1.6	-1.5	-1.2	-1.3	-1.3
gated_channel,_lsk-	2	i c			12	-1.0	-1.3	4.1-	-1.5	-1.2	-1.4	-1.5
member 1	1.0	8 7			-1.2	-1.47043~	-1.53147+	-1.5	-1.8	-1.5	-1.4	-1.5
7/1 E318 866_ATP_synthase_H+_transporting_mitochondrial_F0_complex_su	1-1-1	10			-1.4	-1.2	-1.2	-1.7	-1.1	-1.3	-1.2	-1.3
	5.	-20			-1.2	-1.1	-1.3	-1.4	-1.4	-1.4	-1.4	-1.5
Albbibbz tos-like aniigen z	-1.5	-1.7			-1.1	-1.0	-1.1	-1.4	-1.4	-1.5	-1.3	-1.2
inducible cytokine subjenting a (cysercyse), mornes	1.0	-1.3			1.0	4.1-	-1.1	-1.3	-1,6	-1.5	-1.3	-1.4
AAAXBUZ ESIS	10	-	14	-2.3	-1.3	1.21425*~	-1.2	-1.1	1.2	1.1	4.1	-1.0
	, T	r.			-1.3	-1.0	1.4	-2.0	-1.6	-1.4	-1.3	-1.5
gene family member 2	2 3	2 4			1.5	-10	-1.3	-1.0	1.1	1.0	1.3	1.81
AA051655 somatostatin AI020170 sema domain, immunoglobulin domain (Ig), transmembrane_do	1.0	0.1	7.1-			,		۲ د	4	1	<u>با</u>	0 7-
main (TM) and short cytoplasmic domain, (semaphorin) 4D	4.1-	-1.5	9.	0	<u> </u>	71.	1 0	4 4	ű	۲.	9	9
AA770808 pericentriolar material 1	-1.9	-2.1	1.6	2	-1.7	Z-1-	2	27 ;	? ;	2 4	2 -	,
AA062293 cytochrome c oxidase, subunit Va	1.1	1.0	1.3		-1.2	-1.0	-1.2	1.1		2 :		2 ;
W36524 schlafen 2	4.1-	-1.3	-1.3	-2.3	4.1-	4.1-	-1.2	-1.1	5	-1.5	-1.1	
AA106154 RIKEN CDNA 1300003009 gene	-1.2	-1.2	1.5	-2.3	-1.3	1.2	1.1	4.1	7.7	1.1		1.1
Algorian Line factor 2 (fund)	-1.3	-1.4	-1.4	-2.3	-1.1	-1.5	1.1	1.1	4.1-	4.1-	-1.2	-1.2
AAAAAAA DADEA IIko 3 (S. caravisiaa)	-17	-1.5	-1.5	-2.3	-1.1	-1.5	-1.3	-1.3	-1.5	-1.2	-1.3	-1.3
A A 270 460 interferon inclined protein with fetratricopeotide repeats 1	11	-1.2	-1.1	-2.3	-1.6	-1.20626+	-1.4	1.0	-1.1	-1.2	1.1	-1.1
1	1.5	-1.7	-1.1	-2.3	8.5	-1.03567~	-1.3	-1.1	1	-1.0	1.0	6.1.9
W125002 annexii Aric AA43907 ATP_synthase, H+_transporting,_mitochondrial_F1F0_complex,_ suhunit a	1.4	1.1	1,8	2.3	-1.4	-1.0	1.0	-1.7	7.7		-1.2	-1.4
AANAA085 nana rich cluster. C9 dene	-1.7	-1.4	-1.5	-2.3	-1.1	-1.3	1.1	-1.5	-1.5	-1.2	-1.4	-1.3
AIR76997 carboxyl ester libase	1.5	1.6	4.1-	2.3	8.9	1.9	-1.3	4.1-	1.1	-	2.0.1	7.7
AA444672 RIKEN CDNA 2510001A17 gene	-1.1	-1.0	1.1	-2.3	-2.0	-11	1.3	-1.1	1.2	-1.4	1.0	-1.2
A A A A A A A A A A A A A A A A A A A	1.0	. 6,1	-1.6	-2.3	-1.1	-1.2	-1.2	-1.3	-1.3	-1.2	-1.3	-1.5
A1925999 transplatements & F. nakmentide	-2.0	-2.0	-1.4	2.3	-1.2	-1.3	-1.2	-1.2	1.7	4-1-4	-1.5	-1.7
Alazbasz iransgiutalinitase a, E potypopiloc	-	10	1.8	2.4	3.0	1.3	1.2	1.0	1.3	1.3	1.1	-1.2
AATUSSOO gluistiiloite Striaisierass, apria 1									:			٠

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	9 1	r.	1-1	-2.4	2.4	2.4	-1.9	-9.0	-1.2	-2.1	-2.5	-1.6
AAGZEVSO abuildon A-1		9	1.1	-2.4		-1.1	-1.1	-1.1	-1 .1	-1.1	1.0	4.1
		-1.6	-1.4	-2.4	-1.2	-1.5	-1.3	-1.4	-1.5	-1.4	-1.5	-1.3
AF091457_1 ESTS, Highly_similar_to_AF091457_1_zinc_finger_protein_RIN_Z FIR_numericins		-1.2	7.0	-2.4	1.0	-1.0	-1.1	1.1	-1.0	-1.1	1.0	1.1
AA718476 RIKEN ANA 0610025G13 gene			1.3	-2.5	1.1	-1.1	1.1	-1.4	-1.0	1.2	-1.3	1.2
subfamily A1			-1.2	-2.	1.3	-1.6108~:	1.5	-1.0	-1.0	1.1	1.4	1.3
		-1,6	-1.4	-2.5	-1.2	-1.0	-1.1	-1.3	-1.5	-1.3	-1.3	-1.2
AA727627 anlawin 1 erythmid		2.1	-1.6	-2.5	-1.3	-1.2	-1.4	-1.4	-1.6	-1.6	-1.4	-1.7
		1.3	-1.1	-2.5	-14.7	-2.6	1.2	-1.3	-2.4	1.3	-1.1	-1.3
WASAGA Avnein axon heavy chain 11		-1.3	-1.1	-2.5	-2.1	-1.8	-1.1	1.0	-1.1	-1.2	-1.2	1.
AAA37871 aukanyatic translation initiation factor 4. damma 2		1.0	4.1	-2.5	-1.7	-1.0	1.2	-1.0	1.2	1.1	-1.0	
		-1.8	4.1-	-2,5	-1.2	-1.2	-1.3	-1.3	-1.5	-1.5	-1.4	-1.4
MR94148 ribosomal profesion S19		1.1	1,2	-2.5	-1.4	-1.0	1.1	-1.4	-1.0	-1.1	1.3	-1.1
(anion exchanger), member 2	1.0	1.1	1.1	-2.5	-1.1	-1.5	-1.4	-1.0	-1.3	-1.0	-1.2	-1.0
	1.2	-1.10107+	-1.1	-2.5	1.3	-1.3814+~	1.4	1.1	1.1	1.1	1.1	1.1
AA444254 mmithine decarboxvlase structural	1.1	-1.3	-1.4	-2.5	-1,6	-1.2	-1.1	-1.6	-1.4	-1.1	-1.1	-1.0
M120517 interferon remilatory factor 7	1.3	-1.3	7.1	-2.6	1.2	-1,85968-	-1.2	-1.0	-1.1	1.1	-1.1	1.0
A 222223 2'-5' olimadenviste suntherase 1A	1.1	1.2	1.1	-2.6	1.1	2.1	-1.1	1.0	-1.2	1.1	-1.2	1.1
AAAASAAA muskina	1.3	1.3	1.4	-2.6	-1.2	-1.2	-1.0	-1.3	1.7	-1.0	-1.1	-1.0
A D 2 J 5 Q 7 C C C C C C C C C C C C C C C C C C	1.0	1.5	1.1	-2.6	1.2	-1.1	1:4	-1.1	1.2	1.2	-1.1	-1.1
NESTETA EST.	-1.1	1.0	1.2	-2.6	-1.8	1.3	-1.1	-1.0	-1.2	-1.3	-1.0	1.1
AA71702 Mus musculus 10 day old male pancreas cDNA, RIKEN full- locate anarbad literary clans 1810008417 full insert sequence	8.	1-1-	-1.2	2.7	-25.5	-5.2	2.1	ر. 6.	-2.9	1.2	1.1	-1.4
Alasanza Este	-1.9	-1.6	-1.6	-2.7	-1.1	-1.5	-1.0	9.	1.7	-1.6	-1.5	-1,6
AARZ4020 major unimary protein 1	1.1	-1.1	-5.01013*	2.7	1.0	1.09942~	1.5	-16.7	-1.5	-1.6	-1.6	-1.4
AA175695 RIKEN cDNA 5730456716 gene	-1.3	-1.1	1.2	-2.7	-1.6	1.25121~	-1.0	-1.0	-1.2	-1.1	-1.0	1.3
AA675084 elastase 2	2.3	1.4	-1.2	-2.7	-21.7	-2.2	1.7	-1.9	4.0	-1.4	-1.2	-1.4
AASSS905 ribosomal protein L28	-1.3	1.8	-1.0793*	-2.7	1.0	1.1	1.1	4.1.	1.0	1.3	-1.3	1.0
A1120876 CD24a anticen	1.3	1.2	-1.5	-2,8	-1.7	-2.1	1.1	-1.2	-10	-1.0	1.4	1.1
AA414790 leukortiene A4 hydrolase	-2.1	-2.2	-1.6	-2.8	-1.3	-1.6	-1.2	-1.7	-2.0	-1.7	-1.6	8.
AA821884 amvlase 2, pancreatic	¥.	1.1	-1.2	-2.8	-32.0	4.0	 87	-1.2	4,4	1.1	-1.1	-1.2
AA185052 BIKEN cDNA 2510004L01 gene	1.0	1.0	-1.1	2.8	-1.0	-1.8914~	1.07838+	1.2	1.1		-	-
A4733740 FSTs	-2.0	2.2	-1.6	-2.9	-1.3		-1.2	-1.6	-1.7	-1:8	7.6	8.
W/15809 hemodlobin, beta adult major chain	1.5	-1.2	1.2	-2.9	1.3	-3.7	7	-1.2	-1.0	, 2°	-1.7	-1.6
AA1227201 histocompatibility 2 O region locus 7	1.3	-1.4	1.3	-3.0	1.6	-1.2	-2.8	-1.2	-1.3	-1.0	-1.3	-1.2
			1									

STOMACH

-2.0

-1.2

-1,6

-1.2 4 1.2

-1.2

5.

AA822105 major urinary protein 1

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	las	panc	liv s	stom	int	col	br	lung	plad	kidn	pl/ut	mam
		l	a Ca		ڔ		۲.		PI.	PL. PL.		P.:
	4B_BDEnar 2	2B_BDEnor	or all	8B_BDEnor	3DEnor	BDEnor	1B_BDEnor	B-BDEnor	9B_BDEnor	10B_BDEnor		12B_BDEnor
		i .		-1.1	1.2	-1.2	-1.2	10	-1.0	1.6		1.2
6572 thyroid homone responsive SPD 114 homolog. Fatt	1.2	-1.6	- F8	4,1-	-1.3	-1.6	-1.3	-1.8	-1.5	-1.3	1.1	-1.2
	+9696	053+	3.0	1.31173+	1.0	1.41016+	1.55264+	-1.10611+	-1.0531+	1.13851+	-1.05399+	-1.13526+
	1	T		${}^{-}$	4.1	1.0	-2.4	1.3	1.1	23	1.1	1.1
					1.3	1,72583~	-2.1	1.2	-1.0	2.1	٦.1	-1.2
						1.5	-1.2	-2.6	1.0	1.1	-1.1	1.5
AASSUUTS CYTOCHIONE FROM LESS					-1.2	1.3	-1.0	-1.4	1.1	1.1	-1.3	-1.3
transporteri, 198				1.0	1.0	-1.19636~	<u>. 1</u>	47.	7	1.0	1.3	1.2
						2.74133-	1.1	-3.7.	-2.1	-1.4	-2.3	-1.3
carrier family_2 (facilitated glucosts frankport	+ 109	261+	1.4		4.1	178237+	-2.06124+	1.20289+	1.38263+	1.0	1.33503+	1.39713+
	_	Τ			2.4	1.8	1.2	-1.6	-1.3	£.8	-1.9	-1.2
			100		1.1	1.0	1.0	1.0	-1.1	1.0	1.0	1.0
	+8606	1923+		93+	-1.0149+	-1.52171+~	-1.07118+	1.01954+	1.07526+	1.15311+	1.35956+	1.34636+
	Τ.	Π.	2.4	1.14256+	-1.0782+	-1.37095+~	1.46647+	1.30476+	1.0216+	1.0616+	1.1	-1.03458+
	Ar. 21,75.1				1.2	-1.52324~	-1.5	-1.3	1.2	1.2	4.1	1.2
s musculus triacylgiyesrol bydrolase mHNA, co	1.2		DIAM'S	1.1	1.1	1.4	-1.1	1.2	-1.5	1.1	-1.1	4.3
	1 26667+	+900		1.3	1.88774+	-1.29025+~	-1.28348+	-1.02353+	1.3	1.3	-1.2	1.2
				1.0	-1.0	-1.2	-1.8	-1.2	-1.1	1.2	1.5	-1.4
	3657+	1.08101+		-1.16185+	1.08991+	-1.06459+~	1.52232+	-1.53699+	1.1171+	1.19795+	-1.11181+	-1.1209+
Π	1			-1.1	-1.25687+	1.10888+~	-1,11193+	-1.52779+	-1.12343+	-1.3	-1.3	-1 10113+
kly_similar_to_T46271_hypothetical_protein_DKFZp5	1-1		23	1.0	-1.0	1.98534*	-1.3	1.0	-1.1	-1.1	-1.2	-1.2
		5534+	Ó	1.1	-1.2	-1.00289+~	1.21671+	-1.0	1.1	-1.2	1.1	1.1
acid early transcript gattitle		-16	0.6	1.3	1.2	1.0	-1.1	-1.1	1.2	1.1	-1.1	1.1
AA771355 Itolin A		1.3		1.5	1.8	1.63416+	1.0	2.0	-1.4	-1.3	-2.0	1.0
AA82005 ESTS, Weakly similar to CO8A HUMAN COMPLEMENT CO	ř.	7.1	2.5	-1.0	1.	2 007 98-	-1.8	-20.2	-1.5	-1.3	-1.4	-2.7
		-1.9		-1.7	-1.4	-1.20807~	-1.2	1.0	-1.1	1.3	-1.4	-1.3
		1.0		1,1	-1.3	-1.26846~	1.0	-1.1	1.2	1.1	-1.4	-1.1
Al789916 hydroxysteroid 11-beta deliyulugelidase i			1				!					

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12 15 15 15 15 15 15 15	AA106162 cytochrome D450 2c29	1.0	-1.1	22 - 1.0	1.7	1.13279*~	-1.4	-1.7	-1.2	1.1	-1.0	-1.1
12 14 25 15 16 18 11 104769- 11 12 14 12 14 12 14 12 14 12 14 14	A1597312 hydroxysteroid dehydronenase-1, delta<5>-3-beta	1.2	-1,5		1.3	1.51336~	1.0	-2.55267+**	-1.2	1.2	-1.5	1.1
1.2 1.4 2.5 1.5 1.6 1.6 1.1 1.6 1.1 1.6 1.1 1.6 1.1 1.6 1.1	AA261489 hymothetical protein 154		1.1	A	1.1	1.04783~	-1.1	-1.2	1.0	1.1	-1.0	-1.1
1.1 1.2 2.2 2.4 1.5 1.5 1.5 1.5 1.5 1.1 1.5 1.1 1.5	WE5070 ESTs					7. 8.1	1.1	-2.6	-1.4	-1.4	-2.3	-1.1
11 1,3 27 1,5 1,1 2,4 1,7 2,1 1,3 1,3 1,02866	W36474 metallothionein 2	-1.2			4.9	1.8	1.1	-1.6	-1.1	1.8	-1.9	1.0
1,03366 1,26686 24 1,01944 1,387064 1,065144 14 14 13 1,4 1,4	Al386062 carbonic anhydrase 3	1.1	-1.3		1.1	-2.4	7.	-2.1	-1.3	-1.2	-1.6	-1.5
12 15 21 13 200000000000000000000000000000000000		_	-1.25698+			1.08514~	-1.15781+	1.4	1.3	1.0	1.36564+	4.1
13 1335864 21 14 14 1-1028524 1-160774 15 11 12 12 130304 1-15 203034 1-15 12 12 12 12 12 12 12 12 12 12 12 12 12			5		-1.3	2.0	-1.0	-1.3	-1.3	-1.3	1.2	-1.1
17 18 21 1.1 1.2 200005+ 1.5 2.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.3 1.0 1.2 1.3 1.0 1.2 1.3 1.0 1.2 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.0 1.3 1.0	AA960031 neroxisomal biogenesis factor 11a	1.3	586+		4.1	-1.02652+~	1.16677+	1.5	1.1	1.7	1.2	1.5
1,1 1,0 2,1 1,2 1,2 1,1 1,0 1,2 1,2 1,1 1,0 1,2 1,2 1,1 1,0 1,2 1,2 1,1 1,0 1,2 1,2 1,1 1,0 1,2 1,2 1,1 1,2 1,2 1,1 1,2 1,2 1,2 1,2 1,3 1,1 1,2 1,3 1,1 1,2 1,3 1,1 1,2 1,3 1,3 1,1 1,2 1,3 1,3 1,4 1,2 1,3 1,4	AA822480_ESTS_Weaky_similar_to_retinal_short-				-1.2	2.00303-	-1.5	2.1	1.2	-1.2	1.0	-1.7
gene -1,10123+ -1,00385+ 2,1 -1,2 1,18494+- 1,26699+ -1,9 -1,3 Doenzyme A reductase -1,1 -1,6 2,0 1,3 -1,5 -2,18263+- -1,1 -1,0 -1,0 -1,1 -1,6 -1,0 -1,1 -1,6 -1,0 -1,1 -1,6 -1,0 -1,1 -1,2 -1,2 -1,2 -1,2 -1,2 -1,2 -1,2 -1,2 -1,3 -1,1 -1,1 -1,3 -1,1 -1,3 -1,1 -1,3 -1,4 -1,3 -1,4 -1,3 -1,4 -1,3 -1,4 -1,3 -1,4 -1,3 -1,4 -1,3 -1,4 -1,3 -1,4 -1,3 <td>AA108741 RIKEN cDNA 0610025119 gene</td> <td>1.1</td> <td>1.0</td> <td></td> <td>1.3</td> <td>1.0</td> <td>1.2</td> <td>1.2</td> <td>1.2</td> <td>1.1</td> <td>1.1</td> <td>1.0</td>	AA108741 RIKEN cDNA 0610025119 gene	1.1	1.0		1.3	1.0	1.2	1.2	1.2	1.1	1.1	1.0
Are boundase 1.1 1.6 2.6 1.3 1.5 2.18283+- 1.1 -1.3 1.0 1.1 1.62438- 1.1 4.7 1.3 Miransferase 1.3 -1.3 2.0 1.0 1.1 1.6 1.3 -1.4 1.3 -1.4 1.4 1.7 1.1 1.1 1.1 4.7 1.3 -1.6 1.3 -1.6 -1.9 -1.0 -1.7 -1.0 -1.1 1.0 -1.0 -1.1 -1.1 -1.4 -1.7 -1.1 -1.1 -1.0 -1.1 -1.0 -1.0 -1.0 -1.1 -1.0 -1.7 -1.0 -1.7 -1.0 -1.7 -1.0 -1.0 -1.7 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.1 -1.0 -1.0 -1.1 -1.0 -1.0 -1.1 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0	AA572640 RIKEN cDNA 1700124F02 gene	-1.10123+	Γ.	100	1.2	1.18494+~	1.26699+	-1.9	-1,3	-1.0	-1.2	-1.2
yirransferase 13 13 20 10 1.1 462439- 1.1 47 13 protein 2 (p45) 1.0 1.7 2.0 1.1 1.1 1.2 2.3.1 1.4 1.7 1.4 protein 2 (p45) 1.0 1.5 2.0 1.3 1.6 1.6 1.9 1.0 1.7 1.1 ATO Doi 109, expressed 1.1 1.2 2.0 1.1 1.3 1.3781- 1.0 1.4 1.1 ATO Doi 109, expressed 1.1 1.1 1.2 2.0 1.1 1.3 1.3781- 1.0 1.1 1.1 ATO Doi 109, expressed 1.1 1.1 1.2 2.0 1.1 1.3 1.2 1.4 1.1 1.1 1.2 2.44677- 1.1 1.1 1.1 1.2 2.44677- 1.1 1.1 1.1 1.1 1.1 1.2 2.44677- 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	AA712088 3-hvdroxv-3-methylolutaryl-Coenzyme A reductase	-1.1			-1.5	-2.18263+~	4.1	-1.3	-1.0	1.3	-1.2	1.0
protein 2 (p45)	AA272831 betaine-homocysteine methyltransferase	1.3			1.1	-1.62438~	1.1	-4.7	1.3	-1.3	1.2	1.1
protein 2 (p45) 1.6 1.5 26 1.3 1.6 1.6 1.9 1.0 1.7 protein 2 (p45) 1.18 1.12 20 1.5 1.2 274767+7 1.73102+ 2.2 1.8 ATO Doi 100, expressed 1.1 1.2 20 1.1 1.3 1.3 1.1 1.0 2.8 2.8 2.8 2.8 2.8 1.1 1.2 1.2 2.8 2.2 1.1 1.2 1.1 1.1 1.1 1.1 1.1 1.2 2.8 2.8 2.8 1.1 1.2 1.1 1.2 2.8 2.8 1.1 1.1 1.2 2.8 2.8 1	Al386058 serum albumín variant	10.00			-1.1	1.68348~		-23.1	47.	-1.5	-1.3	-2.9
ATO Doj 109, expressed 1.1 1.2 2.0 1.5 1.2 2.0 1.1 1.3 1.37381- 1.73102+ 2.2 1.8 1.1 ATO Doj 109, expressed 1.1 1.2 2.0 1.1 1.3 1.37381- 1.0 1.4 1.1 1.3 1.1 1.0 1.1 1.1 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.0 1.1 1.0 <t< td=""><td>W18463 thioether S-methyltransferase</td><td>1.0</td><td></td><td>145 3</td><td>-1.6</td><td>1.6</td><td>-1.9</td><td>-1.0</td><td>-1.7</td><td>1.2</td><td>-1.0</td><td>-1.2</td></t<>	W18463 thioether S-methyltransferase	1.0		145 3	-1.6	1.6	-1.9	-1.0	-1.7	1.2	-1.0	-1.2
ATO Doj 100, expressed 1.1 1.2 20 1.1 1.3 1.1 1.1 1.2 20 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.2 1.1 1.1 1.1 1.2 1.2 1.1 1.1 1.1 1.2 1.2 1.1 1.1 1.1 1.2 1.2 1.1 1.2 2.8 2.8 2.8 2.8 2.8 2.8 2.8 1.1	AA867621 S-phase kinase-associated protein 2 (p45)	-1,8			1.2	2,74,767+2	-1.73102+	-2.2	-1.8	-1.4	-1.9	-1.3
ATO Doj 100, expressed 1.1 1.0 2.0 1.5 1.1 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.1 1.0 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	Al893740 alvoine N-methyltransferase	1.1	1.2		1.3	1.37381~	-1.0	-1.4	-1.1	1.0	1.2	1.4
1.5 -1.0 2.6 1.4 1.2 210002 1.2 -1.6 -1.3 1.2 1.4 1.2 2.6 1.1 1.1 1.0 -1.4 -1.3 1.2 1.5 1.6 2.5 1.2 2.3 2.2 1.0 4.2 -1.9 1.4 -1.1 2.0 1.0 2.5 2.828164 1.0 1.1 1.2 1.3 1.1 2.0 -1.1 1.5 1.0 1.1 1.0 1.4 -1.2 1.8 -1.2 1.5 1.3 -2.3 -1.2 1.2 1.0 -1.4 1.9 1.1 1.5 1.3 -1.2 1.2 1.0 -1.4 1.9 1.1 1.1 1.1 1.1 1.1 1.0 -1.4 1.9 1.1 1.1 1.1 1.1 1.0 -1.2 1.9 -1.1 1.1 1.1 1.1 1.0 -1.2 1.9 -1.1 1.1 1.1 1.0 -1.2 1.9 -1.1 1.1 1.1 1.0 -1.2 1.9 -1.1 1.1 1.0 -1.2 1.9 -1.1 1.1 1.0 -1.2 1.9 -1.1 1.0 -1.2 1.9 -1.1 1.0 -1.2 1.0 -1.1 1.0 -1.2 1.0 -1.1 1.0 -1.1 1.0 -1.1 1.0 -1.1 1.0 1.0 1.0 1.0	AA420359 DNA segment, Chr 6, ERATO Doi 109, expressed	1.1	1.1		-1.3	-1.1	1,7	1.1	1.3	1.0	1.1	1.1
14 12 20 -1.1 -1.1 10 -14 -13 1.2 25 4.8 2.0 1.2 2.8 2.2 -1.0 4.2 -1.9 14 -1.1 2.0 1.0 2.8 2.8 2.2 -1.0 -1.9 1.3 1.1 2.0 -1.1 1.5 1.0 1.1 1.2 -1.4 -1.2 1.8 1.3 -2.3 -1.2 1.2 -1.0 -1.4 1.8 1.4 -1.2 1.2 1.2 -1.0 -1.4 1.1 1.8 -1.4 -1.2 1.0 -1.0 -1.4 1.1 1.2 -1.2 1.2 -1.0 -1.0 -1.4 1.2 1.0804- -1.3 -1.8 1.1 -1.0 -1.2 1.9 -1.1 1.2 1.3 -1.8 1.1 -1.0 -1.2 1.9 -1.1 1.2 -1.8 1.2 2.9	AA116636 RIKEN CDNA 1110013A05 gene	-1.5			1.2	2.19402~	-1.2	-1.6	-1.3	-1.3	-1.8	1.1
2.5 1.8 2.0 1.2 2.8 2.2 1.0 4.2 1.9 1.4 -1.1 2.0 1.0 2.8 2.8501044 1.0 1.1 1.2 1.3 1.1 2.0 -1.1 1.5 1.0 1.1 1.2 -1.4 -1.2 1.5 1.3 -2.3 -1.2 1.2 -1.0 -1.4 1.9 -1.4 1.1 1.5 -1.2 1.2 1.0 -1.4 1.9 -1.4 1.1 1.8 -1.4 -1.0 1.4 -1.0 -1.4 1.1 1.8 -1.4 -1.0 -1.0 1.4 -1.0 -1.4 1.1 1.2 -1.3 -1.2 -1.0 -1.0 -1.2 -1.4 1.1 1.2 1.10 -1.4 -1.1 -1.0 -1.2 -1.4 1.1 1.2 -1.3 -1.8 -1.1 -1.1 -1.2 -1.3 -1.5 -1	AA511089 clutathione S-transferase, theta 2	1.4			-1.1	1.0	-1.4	-1.3	1.2	. 9 .	1.0	1-
14 -1.1 2.6 1.0 2.28016++ 1.0 1.1 1.2 1.3 1.1 2.0 -1.1 1.5 1.0 1.1 1.0 1.2 -1.4 -1.2 1.8 -1.2 1.5 1.3 -2.3 -1.2 1.2 -1.0 -1.4 1.9 1.1 1.5 -1.3 -1.2 1.2 1.0 -1.4 1.0 1.1 1.1 -1.4 -1.2 1.0 1.0 -1.2 1.2 1.1 1.2 1.1004- -1.3 -1.8 1.1 -1.0 -1.2 1.0 1.2 1.1 1.2 1.1 -1.2 1.0 1.2 1.1 1.2 1.1 1.1 -1.2 1.0 1.0 1.1 1.1 1.4 1.1 1.1 -1.2 1.0 1.0 1.1 1.1 1.1 1.1 1.1 1.1 -1.2 1.0 1.0 1.1	AA024217 Public domain EST	-2.5			A.	2.2	-1.0	-4.2	-1.9	-1.2	-2.3	1.1
13 1.1 20 -1.1 1.5 1.0 1.1 1.0 1.2 1.3 1.4 1.1 1.3	Al325330 evtodrome P450, 2b13, phenobarbitol inducible, type c	1.4	-1.1	4.00	40.000	2.82616+-	1.0	1.1	1.2	-1.2	1.1	1.4
1.4 1.2 18 1.5 1.3 1.2 1.3 1.4 1.1 1.2 1.1 1.2 1.1 1.2 1.2 1.3 1.4 1.1 1.2 1.3 1.4 1.1 1.4 1.1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.4 1.3 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.3	AA415254 glutamate oxaloacetate transaminase 1, soluble	1.3	1.1	20 - 1.1	1.5	1.0	1.1	1.0	1.2	1.4		1.5
ember 1 -1.0 -1.4 1.8 -1.4 1.1 1.5 -1.3 -1.2 1.2 1.2 -1.4 -1.0 -1.0 -1.4 -1.4 -1.1 -1.4 -1.4 -1.2 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.1 -1.1 -1.2 -1.0 -1.4 -1.1 -1.1 -1.2 -	AA237607 pyruvate kinase liver and red blood cell	-1.4	-1.2	Maria.	1.5	1.3	-2.3	-1.2	1.2	-1.1	1.0	1.1
10	AA822117 UDP-glucuronosyltransferase 1 family, member 1	-1.0		1.91.4	1.1	1.5	-1.3	-1.2	1.2	1.1		1.1
1.4 -1.0 1.8 -1.1 1.10904 -1.3 -1.8 1.1 -1.0 -1.2 1.9 -1.4 -1.8 1.68765 -1.0 -1.4 -1.1 -1.2 1.2 1.9 -1.1 1.2 -1.68765 1.5 2.9 1.5 -1.2 -1.0 1.8 -1.1 -1.4 -1.4 -1.4 -1.2 1.5 1.5 1.0	W77429 selenium binding protein 1	1.0		1.9	1.1	8.1.8	-1.4	-1.2	-1.0	1.1	1.1	1.1
18 gene -1.2 1.2 1.4 -1.8 1.68765 - 1.0 -1.4 -1.1 102 gene -1.2 -1.0 1.8 -1.1 1.2 -1.68765 - 1.5 29 -1.4 102 gene -1.2 -1.0 1.8 -1.1 -1.4 1.19407 - 1.4 -1.4 -1.4 1.51631+ -1.05014+ 1.8 1.0047+ -1.60003+ 1.3 2.5688+ 1.02179+ 1.3 -1.2 1.3 1.4 1.4 1.4 1.1 -3.9 -1.1	MINE KINASE [H.sapiens]	1.4		1.9 2 -1.1	1.2	1.10904~	-1.3	-1.8	1.7	1.2	1.2	1.1
18 gene -1.2 1.2 1.2 -1.58765÷ 1.5 28 7.6 ***O2 gene -1.2 -1.0 ***S* -1.1 -1.4 1.19407÷ -1.4 -1.4 -1.4 -1.4 -1.4 -1.2 ***1.02 gene 1.51631+ -1.05014+ ***18* 1.10088+ 1.10047+ -1.600034÷ 1.3 -2.5088+ 1.02179+ **1.3 -1.2 ***19 1.3 1.4 1.4 1.4 1.1 -3.9 -1.1	AIB92274 amine N-sulfotransferase	-1.0			80	1,62014*	-1.0	-1.4	-1.1	4.2	4.1-	1.2
'02 gene -1.2 -1.0 *** *** *** *** *** *** *** *** *** **	AA067863 RIKEN cDNA 2310057J18 gene	-1.2		12.50	1.2	-1.58765-	1.5	2,0		7.	-1.4	-1.8
1.51631+ -1.05014+ 4.635 1.6088+ 1.10047+ -1.600034- 1.3 -2.5088+ 1.02179+ 1.3 -1.2 4.3 1.4 1.4 1.1 -3.9 -1.1	AA437705 RIKEN cDNA 2410012F02 gene	-1.2		10.5	-1.4	1.19407~	-1.4	-1.4	-1.2	-1.1	-1.2	-1.0
1.3 -1.2 (38) 1.4 1.4 1.1 -3.9 -1.1	Al551358 urate oxidase	1.51631+		700		-1.60003+-	1.3	-2.5086+	1.02179+	-1.2	1.3	0:
	AA822002 cytochrome P450, 2c40	1.3	-1.2	1.9	1.4	1.4	1.1	-3.9	-1.1	-1.2	-1.3	-1.2
O5 gene	AA674491 RIKEN cDNA 1110007F05 gene	1.3	1,14853+	\$.9 × -1.3	1.4	-1.156:18.+~	1,03774+	1.1	1.1	-1.0	-1.1	-1.2

LIVER

AARFRR94 cynchrome P450. 259. phenobarbitol inducible, type a	7.	4,1-	6.	1.3	2,6	3.8 %	-1.3	1.1	1.3	1.2	1.1	1.2
AA545801 thymidine kinase 1	1.2	-1.2		-1.2	1.1	1.24271~	-2.2	-1.1	1.3	1.0	-1.1	1.1
Procedure in the international control of the contr	-1.2	1.0	.83	1.3	1.1	2,00841+-	-1.11126÷	-1.1	1.1	1.1	1.1	-1.2
AA260296 esterase 31	1.2	-1.01604+		1.2	1.2	-1.23474+~	-1.14543+	-1.45171+	-1.2	-1.0	1.1	1.6
A120986 platelet factor 4	1.1	-1,01893+	8.3	1.0	1.2	2.4132+~	1.23402+	-1.1	1.2	1.2	-1.1	1.1
At326554 aldo-keto reductase family 1. member C1	-1.0	1.0		1,8	1.4	78151~	1.1	-1.2	1.5	1.0	1.2	1.5
AA061729 keratin complex 1, acidic, gene 13	1.2			1.1	1.2	1.23314~	-1.7	1.5	-1.1	-1.4	1.5	1.5
AA028346 keratin complex 1, acidic, gene 19	4.1-	-1.6	1.9	-1.5	1.0	-1,2	2.3	1.1	-1.1	-1.3	-1.2	-1.2
AA008331 RIKEN cDNA 2900055D14 gene	-1.4	-1.1	1.9	-1.2	1.1	-1.45209~	1.3	-1.0	-1.2	-1.2	-1.2	11
Al390445 ESTs	1.1	1116+		-1.6	-1.4	-1.16436+~	-1.50546+	-1.0	-1.1	-1.2	-1.1	-1.1
AA674784 Mis miscrifis mas matein (Mosa) cene, complete cds	-1.6	4.9	6,	-2.2	-1.0	-1.1	-1.2	-1.4	-16	-1.6	-1.6	-1.6
W53604 omcolladen, type VI, alpha 2	-1.1		9:1-	-1.5	-1.0	1.0	-1.4	-1.1	1.3	-1.3	-1.3	-1.5
AA607013 ESTs	-1.1		-1.9	. 91	1.3	-1.0562+~	-1.0	1.2	-1.0	1.1	1.1	1.4
W62007 neuron specific gene family member 2	-1.5	-1,5	-1.9	-2.3	-1.3	-1.0	1.4	-2.0	-1.6	-1.4	-1.3	-1.5
AA794055 cysteine rich protein	1.0	1.4	-1.9	-1,3	1,7	-2.0	1.3	-1.0	-1.4	-1.0	-1.3	1.1
A593151 heparan sulfate 2-O-sulfotransferase 1	-1.2	-1.0	-1.9	1.4	1.3	-1.34248+~	-1.0	1.2	-1.1	-1.1	1.0	-1.1
AA273820 schlafen 1	-1.3	-1.5	-1.9	-1.7	-1.1	-1.47898+~	1.21692+	-1.0	-1.4	-1.1	-1.3	-1.0
AA619407 pancreatitis-associated protein	2.	19.5	-1.9	1.2	4,4	-2.4	-1,1	-1.3	1.0	-1.2	1.3	1.1
AA867162 RIKEN cDNA 4933400E14 gene	-1.3	1.1	-1.9	-1.4	1.3	-1.81998+~	1.5	-1.0	-1.0	-1.0	-1.0	-1.1
A591831 ESTs	ار ت	-1.4	-2.0	-1.8	-1.1	1.0225+~	1.37023+	-1.23373+	-1.3	-1.2	-1.3	-1.5
AI592552 phorbol-12-myristate-13-acetate-induced protein 1	-1.3			-1.6	-1.2	-1.25542+~	-1.0	-1.1	-1.2	-1.4	-1.2	1.1
AA871265 Public domain EST	1.3	4.1-	-2.0	1.4	-1.7	-3.0	-3.1	-1.3	1,2	1.3	1.4	-1.7
AA445667 RIKEN cDNA 4632401C08 cene	1.3		-2.0	2.1	-1.0	1.1	1.3	-1.2	61	1.4	1.8	1.9
AA591215 fatty acid binding protein 5, epidermal	1.2	-1.2	-2.0	-1,0	1.2	5,489581-	1.1	1.1	1.3	1.1	-1.1	-1.3
Al594243 CD8beta opposite strand	-1.4	-1.0	-2.0	-1.7	1.1	-2.0	1.2	-1.2	-1.1	-1.2	-1.1	-1.2
W89253 insulin-like growth factor binding protein 5	-1.0	-1.3	-2.0	1.2	1.4	1.16404~	1.1	1.0	-1.0	1.1	1.0	-1.6
AA412831 Mus musculus, clone MGC:6804, mRNA, complete cds	-1.2	-1.2	-2.1	-1.1	1.0	1.07343-	-1.0	-1.0	-1.1	-1.1	-1.1	-1.1
AA726855 RIKEN cDNA 3230402M22 gene	1.3	1.5		-1.5	-1.7	-1.4	-1.4	-1.2	1.4	1.2	1.1	-1.3
AI048040 claudin 4	-1.6	1.5	-2.1	-1.9	1.7	-2.7	1.5	-1.1	-1.2	-1.3	-1.2	-1.2
A/428626 ESTs	-1.4	1.1	-2.1	-1.8	1.3	3.0	1.2	-1.2	-1.1	-1.3	1.0	-1.2
AA684403 ESTs	-1.4	1.7	-2.3	-2.0	2.0	2.4	1.5	-1.0	-1.3	-1.3	-1.1	-1.1
AA450922 heát shock 70kD protein 5 (glucose-regulated protein, 78kD) 1.1	1.1	1.6	2.4	-2.2	2.4	1.6	1.0	-1.3	1.2	-1.1	-1.1	-1.2

LIVER

PCT/US02/41825

рансгеая	spi	panc	liv	stom	int	col	br	lung	blad	kidn	pl/ut	mam
Description	PL- 4B BDEnor	PL. 2B BDEnor	PL. 68 BDEnor	PL- 88_BDEnor	PL- 38_BDEnor	PL. 58_8DEnor	PL- 1B_BDEnor	PL• 78_BDEnor	PL. 98_BDEnor	PL. 10B_BDEnor	²L• 118_8DEnor	PL• 128_BDEnor
AA619407 pancreatitis essociated profein					a Constitution	-2.4	-1.1	-1.3	1.0	-1.2	1.3	1.1
AAGG2401 TATA box binding protein (TRP)- associated factor RNA polymerass II. 9, 150kD	1.2	4,	1.7	5.1.5	-1.8	1.4	1.4	-1,4	1.1	1.1	7.6	1.2
AA210481 clusterin	1.1	3.0	1.2	-2.0	1.8	-1.4	1.3	-1.1	1.1	1.4	-1.2	1.2
AA4377.17. ESTs. Moderately similar to 124631 hypothetizal profi ein DKF20634P1216.1 Hampetis	-1.2	2.4		<u>-</u> -	1.4	-1.3	1.1	-1.2	1.3	1.1	4.1	1.7
AA790398 ribonuclease 1, pancreatic	1.7	2.3	-1.2	-5.8	-16.6	-3.3	1.8	-1.9	4.1	-1.1	-1.2	-1.1
AA575501 ESTs	-1.4	2.2		-1.3	1.2	-2.4	1.3	-1.6	-1.5	-1.2	-1.3	-1.1
AA681081 ESTs	-1.1	2.2	-1.1	1.1		-1.6	1.3	-1.4	-1.3	1.0	-1.2	4.1
Al597421 ESTs	1.4	2.1	1.0	1.4	1.2	-1.0	1.0	1.5	1.3	1.4	1.3	1.2
AA600634 signal sequence receptor, delta	1.4	2.0	1.1	-1.2	-1.0	-1.2	-1.1	-1.2	1.1	1.1	-1.1	1.1
AA458425 Swi/SNF related matrix associated, actin dependent regulator of chromatin, subfamily a-like 1		2.0	-1.2	1.8	1.4	1.09081+~	1.4	7; 5;	1.3	1.3	1.3	1.6
AA571665 ESTS, Moderately similar to 138863 E1B 19K/Bci-2- interacting protein Nip1 [H.sapiens]	1.4	2.0	1.0	1.3	1.2	-1.0	11	1.4	1.4	1.2	1,4	4.1
1	1.4	2.0	1.0	1.3	1.2	-1.1	1.2	1.3	1.2	1.3	1.4	1.3
	-1.0	2.0	1.1	1.9	1.1	-1.2	1.2	1.0	1.1	1.4	1.0	-1.0
A1120332 RIKEN cDNA 1810055P16 gene	1.3	1.9	-1.2	-1.2	1.1	-1.7	1.2	-1.2	1.1	1.0	-1.2	1.0
AA469630_choline_kinase	1.7	1,9	-1.4	3.1	2.0	1.31548+-	1.3	2.3	2.0	1,8	22	24.2
AA763351_death-associated_kinase_3	1.2	1.9	-1.2	1.1	-1.0	-1.6	1.3	-1.1	1.0	1.1	-1.2	1.0
AA543968 RIKEN cDNA 2810418N01 gene	1.2	1.9	-1.1	-1.6	1.2	-1.1	1.1	-1.2	-1.0	4.1	-1.2	-1.2
AI549624 RIKEN_CDNA_0610041E09_gene	1.6	1.9	-1.3	36	1.9	-1.01549+~	1.1	2.2	2.1	1.6	2,5	2.3
AA162226 Public domain EST	1.4	1.9	1.0	7.5	1.2	1.1	1.2	1.4	1.5	1.2	1.4	1.3
A1643201 Mus_musculus_TOB3_mRNA,_complete_cds	1.3	1.9	1.1	2.1	1.5	1.20006+	1.25034+	1.7	1.4	1.5	1.5	1,4
Al597097 Public_domain_EST	1.3	1.9	-1.1	-1.0	-1.6	1.2	1.2	-1.0	1.2	-1.9	1.0	-1.3
AA607983 zinc finger protein 101	1.23774+	1.9	-1.38204+	2.4	1.8	1.1254+~	166+	1.432+	1.5	1.2	4.	
AA667785_potassium_voltage-gated_channel_Isk- related_subfamily,_member_1	-1.8	-1.9	-1.3	2.2	-1.2	-1.0	-1.3	-1.4	-1.5	-1.2	-1,4	-1.5
A1152562_proliferin	£7 -	-1,9	1.0	-1.2	-1.3	-1.24501	-1.2	-1.2	-1.1	-1.4	-1.1	1.2
AA547393_ESTs	1.0	-1.9	-1.3	1.1	-1.5	1.2	1.13657*	1.3	-1.1	-1.2	1.2	-1.1
AA435278 calsequestrin 1	-1.0	-1.9	-1.2	-1.3	-1.3	1.0767~	-1.8	-1.3	-1.6	1.0.	1.1	-1.4
AA795319_myosin_light_chain, phosphorylatable, cardiac_ventricles	-1.1	-1.9	-1.2	-1.4	-1.3	1,73831-	-3.0	-1.8	-1.3	1.1	1.1	1.0
AA674784 Mus musculus mosg protein (Mosg) gene, complete cds	-1.6	-1.9	-1.9	-2.2	-1.0	-1.1	-1.2	-1.4	-1.6	1.6	-1.6	-1.6
AA546660_calpain_10	1.1	-1.9	1.4	-1.2	1.0	-1.15946+~	1.1	1.0	-1.1	-1.2	-1.1	-1.0
A1606520 ESTs	1.1	-1.9	1,1	17	1.7	1.1	1.0	1.2	-1.1	-1.2	1.1	1.1
Al604245 protocadherin 7	-1.8	1.9	-1.5	1.8	-1.0	-1.46876~	-1.1	-1.2	-1.4	-1.2	-1.3	5.7

PANCREAS

WO 03/058201

TOL COOCHES	7.7	7.0	-11	-13	-18	1.0	1.1	-1.1	<u>-1</u> 6.	5.1.3	1.1	-1.0
AAA/2330 ESTS	4 4							-1.2	-1,4	-1.0	-1.1	-1.2
AAUU8ZZ8 peroxisomal jamesyiareu protein	+							1.1	1.0	1.2		-
W36635 carbonyl reductase 2	1.2	6.1-				7,4000	19090		3 7	,		
Al596699 ESTs	-1.5	1.9	A 100 A			╗	2020		2 .		7.15	
AI117310 flavin containing monooxygenase 1	1.0	-1.9	2.2	-1.7		-1.20807-		1.0	-1.1	1.3	-1.4	-1.3
AA822027 ATPase, Cu++ transporting, beta_polypeptide	1.2	-1.9	1.2	-14	-1.0	1.17594~	-1.2	-21.9	-1.5	-15	-1.8	-1.7
AA789551_ESTs_Weakty_similar_to_l49441_Mouse_19.5_mRNA,_complete				~~	ç	5	co T	,	7	, -		
cds - mouse [M.musculus]	1.1	6.1.9				3844~		7.	-1.7	1.3	1.4	-12
A(551573_ESTs	-1.5	9.1.	4. (t. 0	Т		2 -	-	7 7	1.5	
AA684426 ESTs	1.0	-1.9	-1.2			2				2.	3,	
AA028578 keratin complex 2, basic, gene 4	1.2	-1.9	-1.3					9.	4.1	-1.1	υ. (,	5.
W18822 growth arrest and DNA-damage-inducible 45 gamma	1.2	-2.0	-1.3	1.1		922+~		-1.7	1.3	-1:1	-1.3	1.4
Al325332 transolutaminase 3, E polypeptide	-2.0	-2.0	-1.4	: ji	-1.2	-1.3	-1.2	-1.2	-1.7	-1.4	-1.5	-1.7
AA727521_Mus_musculus_11_kDa_secreted_protein_precursor_mRNA,_complete_cds	1.1	-2.0	-1.4	17	1.5	24	9,	1.2	1.1	1.1	7 .	1.2
AA220024 trophoblast specific protein	1.5	-2.0	-1.2	1.5	1.1	-1.0	-2.2	-1.2	1.4	1.1	1.2	2.3
AA089188 ummodulio	-1.2	-2.0	-1.0	1.1	-1.3	1.0	4.0	-1.4	1.7	1.1	-1.2	-1.4
AA623704 Puhlic domain EST	1.2	-2.0	-1.0	-1.0	, J	1.2	-1.0	1.3	-1.0	-1.2	1.2	
AA726462 Lowells complex 1 pointin name 16	1.1	-2.0	1,2	-1.1	-1.0	1.3	-1.5	-1.2	1.3	-1.2	-1.1	
ANEXAGO for like anthem 2	2.1	-2.0	-1.4	-2.2	-1.2	-1.1	-1.3	-1.4	4.	4.1-	4.1-4	-1.5
W83106_Losaine_angerbrowning_lethal_abnormal_vision_Drosophila)-	7. 10.	-2.0	-1.7		-1.2	-1.44607~	1.0	-1.2	-1.6	-1.3	-1.3	-1.3
A(191011 Mile miscultis clone MGC:6727 mBNA complete cds	17	-2.0	-1.8		-1.8	-2.3		-2.4	-1.4	3.6	4.1-	-1.4
A My Ay 176. ESTS, Moderately, similar to SPA-176. ESTS SPA-	-1.0	-2.0	-1.2	-1.2	-2.0	1.2	1.2	1,3	-1.3	-1.3	1.1	1.1
AAGA3177 FQTs	1.4	-2.0	1.0	1.1	-1.8	1.2	1.3	1.3	1.0	-1.3	1.4	<u></u>
AA770808 norinentriolar material 1	-1.9	-2.1	-1.6	-2.3		-1.2	-1.0	-1.5	-1.6	-1.5	-1.6	-1.6
AA727627 ankvin 1. erythroid	-1.8	-2.1	-1.6		-1.3	-1.2	-1.4	-1.4	-1.6	-1.6	4.1-	-1.7
AA717019 ATPase. Ca++ transporting, cardiac muscle, fast twitch 1	-1.2	-2.1	-1.1	-1.5	-1.3	1,2	-2.8	-14	-1.8	-1.2	1.1	1.1
AA684191 CDC-like kinase	1.5	-2.1	-1.3	-1.1	-2.0	-1.4	-1.3	1.6	1.4	-2.1	4.1	1.2
W54403 ATPase, Cu++ transporting, beta polypeptide	1.2	-2.1	1.1	-1.0	1.2	1.3	-2.9	-7.9	1.1	1-1	-1.1	1.2
AA245952 cyclin-dependent kinase-like 2 (CDC2-related kinase)	-1.1	-2.1	-1.7	-1.8	-1.2	-1.38223~	-1.2	1.1	-1.0	-1.3	-1.1	-
Al385457 retinol binding protein 2, cellular	-2.0	-2.1	-1.6	-1.9	1.5	1.8	-1.3	-1.9	-1.6	-1.9	5.1-	1.7
AA733740 ESTs	-5.0	-2.2	-1.6	-2.9	-1.3	-1.3	-1.2	-1.6	-1.7	8.1	-1.7.	-1,8
AA138265 RIKEN cDNA 2010309G21 gene	-1.1	2.2	-1.5	-1.2	-1.0	9,1-	1.1	1.1	-1.3	-1.0	-1.0	-2.4
AA152636 integrin aloha 4	1.2	2.2	-1.3	1.1	-2.2	1.1	-1.0	1.3	-1.3	-1.4	1.2	-1.0
W36474 metallothionein 2	-1.2	-2.2	2.1	1.2	1.0	1.8	1.1	-1.6	1.1	69	-1.9	1.0
AA414790 leukotriene A4 hydrolase	-2.1	-2.2	-1.6	-2.8	-1.3	-1.6	-1.2	1.7	-2.0	-1.7	-1.6	-1.8
AI664286 tumor necrosis factor receptor superfamily, member 9	1.3	-2.3	-1.1	-1.3	-1.3	1.2	-2.7	-1.3	-1.1	-1.2	1.1	

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TABLE 2

t distance of the second of th	7 1	2.4	-28 7649* -7.8	-7.8	1.1	1,43224~ -1.3	-1.3	-71.1	-1.6	-2.2	-1.1	-1.2
AA822103 major uninaly protein	-											
A 8 2 2 0 0 7 m m m m m m m m m m m m m m m m m	-1.0	-2.5	0.	<u>-</u>	1.0	-1.2	8.	1.7	4.3	2.2	-1.1	-1.7
A A 0 000000 - months light chain after fact chalate miscle	1.4	.25	-1.2	1.1	-1.1	-858£8-	-1.3	1.0	-1,6	-1.4	-1.2	-1.6
ANOZZZO IIIVOSIII IIQIII CIGIII, GIAGII, IGA GIACICAI IIINOGO	ø	3.4	1-1-1	1.1	-1.4	2.08989**	-1.2	1.4	1.1	-1.7	1.5	1.3
AA6005/1 Intractstemat A particles							THE COURSE OF THE PARTY OF THE					
DP1_MOUSE_MICROSOMAL_DIPE	č	Ç.		7	,	-1 19886+~	¥	10	6.	6,	6	6.
PTIDASE PRECURSOR IM.musculus	-7.1	5.0	7!									
	-1.2	5.8	<u></u>	1.8	<u>-</u>	-1.0	-1.0	1.1	1.5	-1.3	-1.1	1.1
anao		-10.7	1.1-	-2.0	1.2	-2.1	-1.3	-1.2	1.5	-1.9	-1.3	1.1
AIGHOLDO AINEN COINT GOOD OF THE GOOD OF T				_								

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100 June 1	gos	panc	≟	stom	int	col	br	lung	blad	kidn	pi/ut	mam
pliceri				PL.	PL-	S BOEsor	PL-	PL. 78 BDEnor	PL. 98 BDEnor	PL- 10B BDEnor	PL- 11B BDEnor 12B BDEnor	PL. 128 BDEnor
Description	BDEnor		-1.2						4.4	-1.1	-1.1	-1.2
KADZ-1888 - Britylsen - C. Jonico centro			2.0			1.68348~	-1.3	-23.1	-1.4	-1.5	-1.3	-2.9
AASZALOG ESTR. Workly similar to COSA HUMAN COMPLEMEN						200798	7.	-20,2	-1.5	-1.3	-1.4	-2.7
1 COMPONENT OR ALFINA, CITAIN, TREVOLATION (Insupport)		14	-1.3		∞,	-2.2	1.0	4.1-	-2.7	-1.2	-1.2	-1.2
		18	-1.3	-2.0	-9.5	-1.3	1.8	-1.5	-2.0	-1.4	-1.1	-1.1
AA982234 KIKEN CUNA ZZIUUIUUU4 gene	3 6	1.4	-1.2	,	1		1,7	-1.9	4.0	-1.4	-1.2	-1.4
AAb/5084 elastase Z			-14		-5.9	-1.0	1.2	1.0	-1.1	-1.1	1.6	1.3
AA674409 pancreatic lipase related protein		-17	-1.3		1.2	1.23582~	-1.6	-1.1	-1.2	-1.4	1.3	1.7
AA222208 sunaciant associated protein C		1-1	1.0			-1.3	-1.8	3.8	-1.0	1.1	-1.2	1.
AA445/31 heat snock protein cognate /v, testis AA717025 Mus musculus 1/0 day old male pancreas_CDNA_RIKEN_full-	e la p		-1.2		9	-5.2	2.1	-16	-2.9	1.2	-	-1.4
lengin emiched notaly, cone, to todoon it, tall most, optioned a language of the length emicrost options of the length emicrostration of the length emicrostratio	6.	1.5	1.5	1.5	1.3	-1.0161~	1.2	4.1	1.0	-1.3	-1.0	-1.3
MULTONIO ESTS	13	1.5	0.1	1.1	1.3	-1.69676~	-1.2	1.1	1.2	1.0	1.1	1.1
AA238194 (sema-domain, immunoglobulin, domain, (lg)_transmembrane_domain, immunoglobulin, domain, (lg)_transmembrane_domain, (semanborin), 4G	-1.9	1.6	1.1	-1.7	-1.4	-1.3	-1.2	4.1-	-1.5	-1.1	1.0	1.0
0.0437577 FSTs	-1.9.	-1.8	-1.5	-2.2	-1.2	-1.47043-	-1.53147+	-1.5	8,1-8	-1.5	-1.4	-1.5
AA2600 ECTs	1.9	1.3	-1.4	-2.3	1.0	-1.4	-1.1	-1.3	-1.6	-1.5	-1.3	-1.4
ANALOGOE ESTS	-1.9	-2.1	-1.6	-2.3	-1.1		-1.0	-1.5	1.6	-1.5	-1.6	-1.8
AA770000 pericelitrolar interior in	1.9	1.4	1.3	1.3	1.5	2.80454+~	1.0	-2.7	4.1-	-1.1	-1.9	-1.3
AAbs4320 activiti Tecebool Illielacuity protein	-10	5	1.7	1.8	- (2)	22	1.1	-1.2	1.2	1.1	-1	-1.0
AAOTISTA GEBEISIII FEBREU GYDUIN 19 AA566ESE ESTS, Weakly_Simila_to_SP62_MOUSE_SPLICEOSOME_ASSO CATED DEPOTEN 62 1M miscullist		1.6	-1.4	-2.2	-1.2	-1.4	1.2	-1.2	-1.7	-1.7	-1.4	-1,6
Alabatin ESTs	-1.9	-1.6	-1.6	-2.7		-1.5	-1.0	-1,6	-1.7	-1.6	-1.5	1,6
AA822098 apolipoprotein A-I	-1.9	-1.5	7	-2.4	2.4	2.4	6.0	0.6-	-1.2	-2.1	-2.5	1.6
Al325332 transqlutaminase 3, E polypeptide	-2.0	-2.0	4.1-	-2.3	-1.2	-1.3	-1.2	-1.2	1,	4 -	0.1-	,
	-2.0	1.3	1.2	1.5	1,4	2.50884+	1.1	-2.1	-	-1.5	9.1-	-12
AA733740 FSTs	-2.0	-2.2	-1.6	-2.9	-1.3	-1.3	-1.2	-1.6	-1.7	1.8	-1.7	-18
44881492 ESTs	-2.0	1.3	1.1	-1.2	1.1	1.1	1.0	- 1	-1.5	1.5	1.7	
Argnana must related transcription factor 3	-2.0	1.1	1.2	4.1	1.4	1.68234	-1.75763+	-2.0	-1.6	-1.3	1.9	1.0
4121690 RIKEN cDNA 1300007C21 gene	-2.0	-1.7	-1.4	-1.4	-1.4	-1.9	-1.2	1.1	-1.7	-1.5		1.2
A1385457 retinal hinding profein 2. cellular	-2.0	-2.1	-1.6	-1.9	1.5	B 1	-1.3	6.1	-1.6	-1.9	-1.5	17
AA255025 S100 calcium-binding protein A9 (calgranulin B)	-2.1	-1.3	-1.2	1.1	-1.1	-3.10648-	8	1.0	1.1	-1.1	1.1	-1.6

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Al551662 fos-like antigen 2	2.1	-2.0	-1.4	-2.2	-1.2	-1.1	-1.3	-1.4	-1.4	-1.4	-1.4	-1.5
AA414790 leukotriene A4 hydrolase	-2.1	-2.2	1.6	-2.8	-1.3	-1.6	-1.2	-1.7	-2.0	1.7	-1.6	-1.8
AA014727 tymor-suppressing subchromosomal transferable fragment 3	-2.1		1.8	-1.2	1.1	2,05236~	-1.8	-3.0	-2.1	-1.8	-2.9	-1.0
	-2.1	-1.1	1.3	1.4	1.1	2.3	-1.5	-3.0	-2.3	-1.5	-2.4	-1.4
SOMAL_DIPEP	-2.1	-3.9	1.2	-1.4	-1.1	-1.19886+~	1.8	1.0	1.3	-1.3	-1.3	1.3
AA608466 ESTs	-2.2	-1.2	4.1	1.1	-1.2	1.17951+~	1.1	1.0	-1.3	-1.2	-1.1	-1.1
Al386257 calbindin-D9K	-2.2	-1.3	1.2	1.5	-53.5	4.	1.0	-1.2	-1.1	-1.2	-1.2	1.4
AA087193 lioocalin 2	-2.2	-1.7	-1.8	-1.3	-1.2	-1.0	-1.4	-1.1	1.2	-2.02682*	-1.6	1.1
AA034678 rhotekin	-2.3	1.0	1.2	-1.0	1.2	2.4	-1.3	-2.5	-2.1	-1.4	-2.6	-1.4
AA414653 ESTs. Weakly similar to KIAA0542 protein [H.sapiens]	-2.4	-1.13914+	-1.5	1.1	-1.2	1.28167+~	1.07853+	-1.27379+	-1.3	-1.1	-1.29631+	-1.1
AA771229 ESTs. Weakly similar to zinc finger protein 95 [M.musculus]	-2.4	1.2	1.3	1.2	1.2	1,7/15-	-2.0	-3.3	-2.2	-1.4	-2.4	-1.4
AA982151 proteinase 3	-2.4	1.1	1.2	-1.1	1.1	1.44236+~	-1.37705+	-1.4	-1.2	-1.2	-1.1	1.1
AA176045 forkhead hox C2	-2.5	1.1	4.1	1.4	1.1	17	1,7	-3.0	-2.3	-1.6	-2.5	-1.1
AA024217 Public domain EST	-2.5		20:	1.2	28:	2.2	-1.0	4.2	-1.9	-1.2	-2.3	1.1
AI428661 ESTs	-2.6	-1.1	1.0	-1.4	1.2	1.2	-1.6	-2.6	-2.1	-1.7	-2.2	-1.5
AA874101 tumor-associated calcium signal transducer 2	-2.6	-1.1	1.5	1.3	1.2	8.531~	1.7	-2.1	-1.5	-1.5	-2.4	-1.2
AA474336 synaptonemal complex protein 3	-2.8	1.2	2.6	1.4	1.5	2,74133-	1.1	-3.7	-2.1	-1.4	-2.3	-1.3
AA031015 mveloperoxidase	-2.9	-1.1	1.0	-1.1	1.5	1.05319~	-1.3	1.0	-1.3	-1.3	1.0	1.1
AA189266 ESTs	-3.2	1.4	1.5	1.5	1.3	1700	-1.3	-5.6	-3.0	-1.8	-3.9	-1.4
AA060282 neutrophilic granule protein	4.0	1.39257+	1.2	-1.0	1.26109+	-1.34714+~	1,712774 1.5	1.5	1.2	-1.1	1.0	-1.4

Sheet 12 Page 2

	The Control of the Co	ntax.	, (d)	27.00.			-8,	34.00	\$ 47.50	2	4	3.	2.1	3.	. A.		1	-			
	noissaidxa jo asir		(÷) (÷)	(+) (-)	(Like	O €	Ŧ	intest (-) (+)	(+)) (-)	brain (-)	E C	X.C E	(+)	placim (-)	(+)	₽£			
ID Becrinia	No. Tiss		PL PL- 4B B 16B DE BDE	Pt Pt 28_B 148_ DE BDE	ก. ผู้เลื่ ยั	1. F.C. 88 B B	PL 20B BCE	PL. PL. 30 0 158	두 않 표	PL. PL. 173 78_3 BDE DE	PL- 19B_ BDE	PL. PL. 18_8 138_ DE BDE	편 8 명	PL. PL. 21B_ 10B_ BDE BDE	77. 228 8DE	PL. PL. 113, 2.13, 5DE 5DE	7. 13. 13.0	H. 248 M	Mox Av Signal	Average	Missed
	Hitspine	blad	3.5 -3.7	-8.8	6.8	£.	3	11:	- 3	13 2	4	34		,	£.	7 3	7	7	40332 6745	2 8.3	
	1 intestine		$\overline{}$	-14 -2.5		1.1	1.6	1.1	-1.7	7	4,3	4.2	S.	- \$12	₹° (°)-		61,	7.	16148 4831.	1,17	
_	i intestine		-1.3 -14	2.9 -3.1	F)-	2.1 -16	637	11 11	.a	-1.6	7	34 31	ា	ا5 ا	-1.9	13 -13	-14	-1.4	3394 068		
44 AA45731 heat shock protein counate 70, testis	2 spieen: lung	blad	£11- 11	.2.8 .2.9		12		1.7	=	- 13	ij	7	. 2	1.9	[3	7	- 5	. t.	\$558 21tm	8	
			-3.3 -6.3	-2.4 -3.6	3.5	-3.5 1.0	1.4	3.3	4.7	-2.8 -1.3	4	4.5 -3.8	-# 	-3.3	-3.4	2.7 3.1	13	e :	2673 452	452.5%7 0	
	2 stomach; bladder		4.11.3+	-3 -3	÷		7	1.3	1.3	1.6+ 1.3+	-1.2+	1.41.5	9	11	1.1-	1.2+	91	-1.2+	1152 258		=
252 AA080175 claudin 8	ा साथापावापु ध्रीवार्ष	blad, breast	2.1 2	1	1.3	-1.1	1.3	13	<u>[]</u>	1.2* 4.7	7	11.	(5	9-1 7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	* *	1,8	7	, <u></u>	2512 42	423 375	
7	l brain	brain	-11 -14	1.5	-1.3	1.5	-13	-14 -15	-1.6	-i.f+	7	i i	7	-1.6	- 17	9,	ij	ij	1979 447	7,383	
94 AA967857 brain protein	1 brain	brain	1.6 1.5		£.	-1.2	9 7	1.1	E,E	4.3 [1.2	1.1	62	7	1.4		13	Ę	£ .	IR4X ST	417	
AA051041 potassium voltage- 104 gated channel, subfamily Q, member_2	1 brain	brain	1.5+ -1,7+	1.1+	+9; 1	-16	, 7	-1 14 -3.44	1.7	2.5+ -1.7+	9 -		-f.5+	1.74	1.5	£1.	7	÷.	876 314	219/,333	£1
122 AJ323053 forkhead box D3	l colon	brain	-1 9 1-	-1.1	1.4	7	- - -	7	Ţ,	1.3	Ξ	3	1.7	-1.1	7 11 17	1,6	1.1	1.1	3361 1715	S KN	
115 AA034678_rhotekin	l colon	brain	2.3 1	1.5	ė	1.4	92 4	17		95	15	3	-2.3	-11 -L6	7	57	Ş	 	3442 (1797	28	
118 A1323308 interleukin 3 receptor, alpha chain	1 colon	brain	12 13	1.3		11	13	11		13	7	9	7	3 416	1,2	2	Ţ,	E .	3406 2057.	3,	
116 AA518917 slug, chicken homolog	l colon	brain	1.2 1.3	1.3 1.4	1.6	1.4	- T	13	2	Ş	1.5	1.5	Ş	1.1	17	13	£1:	-	4719 3088	71 %	
AA546945_tyrosine_3-monooxygenase/tryptophan_5- 128_mononxveemase_activation_notein_zeta_noteivase	i colon	brain	3	17	91	7	3	7	- 2	13 23	. E		ą	1.1	7	1.1		<u></u>	3167	57.20	
_	1 kidney		-2.5 -2.8	7	D.	-1,3	-1.1	2 .25	23	1.8	1.7	2.4	-1.3	1.0 1.4	1.4	4.1 4.3	13	13	13026 4339	24.0	
1		brain	32 43	23 25	71	-1.4	-f.3	1.4	S]	13 38	3.8		-1.7	22 1.6	. 53	-1.4	Ę	1.7 23	2732 85:	857.875	
	-	brain	42 34	13	ę. 6	-19	رم ب	-3.5	2.5	-3.9	3.1		33	26 44	٠	1.9	53	2.6 %	ž (1332.5	
	1 pancreas	brain	-3.8 -2.7	1.2 2.7	3,4	3.5 -16	4.2	-2.9 -3,6	7.7	1.1	2.5	i i	7.F	21 52	£.	4.9 -1.5	77	4	1357 87	871.833	
263 AA681081 ESTs	l pancreas	brain	27 -25	.1 .2.3	33	-14	1.5	2.8 3.2	2.5	-1.6* -3.1	53	i.	2.5	19	4.7	1.8 -1.5	77	7	1685 59	NIT.	
278 AA 107928_reduced_expression_3	i placenta/uterus	brain	2 61	-1.3	7	-1.6	4.3	-1.6 -1.7	=	-1.6 -2	₹.	1 3	2.3	-1.5	; ;;		61.	7	333	1417	
283 AI510089_ESTs	1 spleen	brain	3 : 15.8*	-1.62.3	2.3	-33, -23	1	3. 3.8.	2.7.	27.	2.8	8 D.	2.5	3.6. G39	4	24 23	.920	ž -	1713 24	267.75	
50 A1464603 RIKEN CDNA 0710001E13 gene	2 stomach; brain	brain	1.2 -1.4	ž	=	2	1.3	F F F	177	±1.1	Ş	. 5	Ξ	1.1	17	13	디	1.2	1320	344.458	
58 AA231099 necdin	2 stomach; colon	brain	27 -12	2	4.1	7	5.1	7 2		6.1		* 3	1.4	÷	7	7	à	Ç.	11210 49	15.07	
337 AA000370 RIKEN CDNA 4933438K12 gene	1 stomach	brain	1,9 2,5	=	1,7	11.	1.6	1.1	-1.5	2.6	-1.9	3.0		-14 -19	7	4.2 4.7	·1.2	1.6	4128 91	916.417	
AI425572_ESTs_Highly_similar_to_zyginl_IR.norvegiou	u 1 stomach	brain	1.7 2.1	13	-1.4	1.2 1.2	. 8.1.	-1.5	5	-1.5+	-1.8		7	-1.4 4.7	7	1.1	17.	ż	1816	402.833	
357 AAS17337_WASP_family_1	i stomach	brain	1.3 -1.4	91.0	7	51	7	-		÷.	<u>:</u>	*;	<u>1</u>	13-	1.3		=	- E	1919	383.H33	
309 AA498760 syntaxin binding protein 1	1 stomach		1,7 -1.5	91	4.	7	1.5	- 4	·	7	=	9	1.4	1.1 4.7	1.5	1.4	ż	3	19261 73	737.333	
AA588981_Mus_musculus_brain_cDNA,_clone_MNCb-	1 stomach	brain, blad	-1.6 -1.7	5	1.5	-11-	Ę	11 EJ-	ņ	1.1-	-[.4		Ħ	T.	-1.6	÷	2	2	9981	<u>p</u> _	
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155 AA656394 RIKEN cDNA 1110025315 gene	intestine		13 -12	-3.4	7	4.1 2.9	4.3	1.5 2.1			0.1-0.1-					┱	-	Τ
	do mare de	brain, ol/ut	4. 4.	91	2	- 	71	1.24	-1.2+ 1.6		- <u></u>	7	1.1	÷	1.3 760	335.583		Т
	napiros unjos	#4	11.	47: -23:	4.5 - 5.32	4.2. 5.65.	\$	4.7. 7.5	13. 24	1 10	Ť	4.8.	9.3 -8.4	5.1 -2/9:	5 71.65	9 933 635	2	
A 75672 thyroid hormone responsive_SPOT14_homol	liver	breast	, TL 01	11 -72	7	6.9	-13	9.3. S.B	6.4 -3.6	\$. 5.		55 6.1	4.8	¥.	24773	73 3443.(-	
	liver	breast	(1, 1,7		14	_ 	67- 67	-(.9 -10	51- 51-	26 -16	7	7	5. E.	ä	2.8	B Italia	=	
	mammary cland	breast	3.4 -53	25 2	3.7 2.4	2.9 2.4	3.4 -3.1	2.9 2.4	-3.5	42 2.7	7	3.7 -3.8	3.4	¥	i ş	10363 719.375	52	П
	June June	breast	37 35	23 E8	61. 91	92 20	-24 -22	i z	32 .24	45 21.	. E	30 -34	-31	72	ŝ	60942 42(1), [5	=	
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277 AA/34922 stearoyi-Coenzyme A ucsatulase 1	placenta necus			77	1,4 -1,2	3 -1.5	-11 -1.6	4.2 -1.7	-15 -1.5	2.3	•	51- 51	7	13	17.	1027	0	- T
-	Type:	col	- T-	0 1.3		1 2	1.3 [1.1	11 157	27 13	ມ 5	-2.7	-13	13 2	1.1	-1.7 2563	3 147b 5k	=	_
	Treefine	col, breast	1.3	44, 46	9	16 1.3	2.0	14 8.5	1.2	7.9 7.5		-1.3 -1.6	22	##) b	14698 5162.17	5	Ŧ
154 Al594147 Deta-2 microglobulin	interine	col, kiđn	28 -26	15	2.8 3.1	33 32	3.6	*:	1.5 2.6	3.1	61.	-2.5 56	∓ \$		4.3 9567	1336	5	
	thouse	col, kidn	-1.2 -1.6	21	£.1	1. 1. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2. 1. 2.	1.4 [.1"	1.6	- C	-13	3	. 1	= 41 5	T!	-1.3 5479	1263		Т
AAbbab4 hydroxyacid oxidase (g)y-ulate oxidase	Statistic intestine	col, lung, kidn	-3.8	1.8 -1.4	2.9 -2	i. s -2.3	3.6	54 9	: :1	3.1	=	12	418	5 9 7	1.5 3490	1633	28	
	micsine	col, lung, kidn	1.6 4.4	61- +1.6	1,7 -2.3	4.3 -4.6	1.1		7 7	-1.1		27	1.8		2,	22,083		
152 W30265 Petipieria Inyenii ja oveni Zz. Kasa	intectine	col, pl/ut	22 23	1,4	-1.6 -1.7	-1.2 -1.6	37		7 7	2.1	:	 .:.	3	13	2	2804 243 208	9	
AA/95433 guamyi aminopepinase AA793727 AT-binding easeste sub-	intestine	col, pl/ut	17	2.1.2	1.1	2.1 -2	C) (2)		-13	-1.6	13	-2.1 -2.9	24 \$	7 -	24	5079 848.833		- *T
ATOCKET ALL LINGER PROBLEM CONTROL	colon	int	3.7 .8	1.7 (13	12 -1	-1.2 1.6	8.0 K.C.	91	2.9 -1.6	2.4 -1.9	4	-1.5 42	22 23	4.9	ņ	1238.29	50	\neg
	colon	int	23 4.7	11.1	1.6 1.1	-1 1.5	7.2 2.0 2.0 3.0 3.0	51	22 -14	17.	7	1.5	.18 .22	1.8	7.1	3682 727.167	0 29	Т
_	intestine	int	-13 -1	4.5 -1.2	-1.6 -1.7	1.1- 1.1	3	= 24	12	1.5	3	E .	17	<u>-</u>	171	585.292	E6	\top
17 AAS29824 fatty acid binding protein 2, intestinal	colon; marnmary gland	int, col	72 4.9	13 28	3 -1,7	2 35		3	1.1	.01 .54	3	4.5	τς -	3.5	5.5	12017 2113.21	<u>=</u>	Т
19 AA869173 defensin related cryptdin 6	colon; placenta/ uterus	int, col	44 33	4.4 -1.6	3,1 -2.6	2 3	14. K3		5. 5.	5	-3.2	35 42	42.	2.5	36	1576 3303.46	94	Т
136 AA871914 defensin related cryptdin 16	uoloo	int, col	-15 -7.9	6.6 5.1	6.9	-5.8 -9.1	5 4		- E	-9.3 -9.5	Q.	11	11 B	7	=	21549 2543.38	98 80	T
7	nojos	int, col	25, 24	1 .1.1	23 2.1	2,1 7,3	1		33 -28	27 2	+	3.6	23	3,5	57	9695 1878.04	9	Т
.T	intestine: colon	int, col	3.9 3.9	1.4	2.8 2	-15 28		*	2.6 3.8	2.57	-24	25 34	-3,8.	7 9 7	24 17	12619 2380.5	5)	
A871838 phospholipase A2 group IIA (platelets, syn	intestine: colon	înt, col	3.5	-1.3 -1.3	1.7	1.1			· 海	- G	Ä	97 FF	ite ier	-3	14 4	83.75 1 [65.58	0 853	Т
ovial unit	intectine rolon	ínt, col	24 23	-1.5 -1.2	-1.2				7 91	**	Ţ.		4	i N	1,4 2,5	15382 2835.46	0 2.46	T
AAA02219 Intelectin				52,46	. 53 55 55	51 89			11.	9	- ∓ - ∕ 13	. E	- e-	: E	39 -10	21536 2418.21	- E	
A A A SO 725 membrane metalla endo	intestine	int, col	1.7 2.3	2. 1.5	-1.2	- - -				22 13	-13	: :	£1	17	 ئ د	2959 595.	623	
1// AA430/23 memorane metano chudrophicaes	niversity										-	٠.		•	·:			

AA162211_guanine_nuclectide_blnding_protein_alpha_1	intectine	int, col	6.	**************************************	- C1		7	# # 12 E	ž		11	<u>-1</u>	7 7	달		달 구	2995	1833.21	
W15899 guarylate cyclase activator 2 (guanylin 2, int	intestine	col	51-	1.4 1.4		1 12			e.	4.2 -4.1	5. E1	7	77 - 71 71-	17	11 -13	1.5	5741	1857	
	intestine	int, col	-1.5 W.Z	5.3 -3.6	<u>;}</u>	5,4			114	63	-58	#0 #1	7.3	ű	72 .79	63 -7.3	1570	1539,88	
AH81911_Mus_musculus_clone_MGC:6727, mRNA_c	kidney	int, col	17	13 6.5	-14	45 -13	£			7.4	F F	17	-15	. II	3.8 -2.8	.5 -3.7	34257	3251 58	
_	liver	int, col	- E	ក ព		1.6	17.0	7			33, 13	9		-	15	1.7	2867	1543 03	
_	mammary gland	int, col	4.9	.33 -2.4	-3.6	2.5	9 6 7			4.9	5.6		5.1 3.6	12	32	24 -5.8	0986	1430 96	n
38 AA619407 pengreatitis associated protein 2	pancreas; intestine	int, col	19 63		5.6	52.4.8	23			66 11	. 1	4	. F 18	- 12	12	: :: :::::::::::::::::::::::::::::::::	17714	2312.46	
1	stomach; colon	int, col	6.2- 51-	10	.9.1	6.3 4.9	9.6	* 5		-13	5. O	#	, E	-12	9.2	83	29)80	3411.21	
	stomach; intestine	int, col	12.	3.6	. "	7	3.9		À	2. 63	4.5 53	4.6	7.4 6.6	F	43 -72	46 -17	19373	2835.08	
	stomach, kidney	int, col	4.1- Q.1-	2.8 -2.9	4.7	3, 1.8	\$ X		. 41	3.5	43	5 2.8	43. 28	3 56	5	24 39	35320	5219,63	g
	stomach; bladder; mammary gland	_	. E	11	. 77	12 13	1.1	e C	5	26 .23	1.6 119	1.1	2.2 1.3	.	14 25	13 26	F)	1117.33	
	colon	int, col, pl/ut	1.2	51 & I.S		t1 F1-				- F	1. 1.	7	1,4	7	•	· · · · · ·	4935	1705.29	
106 AA466153 ESTs	brain	-		-1.3+		4.5	11 11	2	1.54	1.6+ -1.7	91	-1.4	17 18	. 1 2	1.8 -2 -	22 4.6	3775	363,875	- 5
A1614443_3'-phosphoadenosine_5'- 280 nhosnhosulfate svutnse 2	p jacenta/uterus		17.7	17	13	1	. A		1.4 -1	1,7 2.4	32 25	5: -16	2.4 22	48	1.5 3.1	1.5 2.6	8759	1253.54	
	intestine; colon		17 17	-1.5	2	4.3	11	(A)	7	/8k	2.6 .2	18	25 22	2.6	22 24	22 -2.8	3580	787.125	
	liver intestine	int, lung,	- R	22	Ş	2.1 1.7	77	13	2.14	130	2.5	2.4	3	7	24.27	-19	7,527	390.875	_
	intestine; colon; mammay gland	int, pl/ut	22 -15	21 10	š.	L1- 91	-16		<u></u>	91 91	26. 17	ñ	– n	ij	* 5	36 24	26293	4501.58	, a
80	manmary gland	int, pl/ut	1. 1.	- 7 - 2	'n	42 7.1	5.1			4	- E	25	2	85	13	-19 5.5	30316	4516.17	=
149 AA108495 decxyribonuclease I	colon	kidn	-14-	14 -3.4	3.	6,3	8.3	*	5,6 -7.7	# #	- H-	ų.	<u>ت</u>	2	4.7	9.4	38024	1648.58	
AA822473_DNA_segment_Chr_8, Brigham_&_Women' 117 s. Genetics_1220_expressed	colon	kidn	1.87	52 53	2	43	32 43	Ą	2.6	22 46	48 28	9	52	2	9	49 37	33407	3120.5	
All 81090_cytochrome_P450_subfamily_IV_B, polypepti	colon	kidn	* * * * * * * * * * * * * * * * * * *	8.3		្នំគឺ ិទ្ធ	\$ \$	1	27.	2	174	=	8.7	1000	13	5.5	17146	1713.42	
141 A1386288 RIKEN cDNA 2700043D08 gene	colon	kidn	=	44		£.	1.8 -1.5	-1.3	1 22	21 -1.6	-1.7	 0	7	ā	7	7	-	1459.38	а
170 AA882450 RIKEN CDNA 1200011D11 gene	intestine	kidn	-1.4	다 다	7	7 7	11.	5	1.5	-13	-1.8	9]	51		57	ņ	£23	627,75	
180 AA110386 annionless	intestine	kidn	11.	1.44	77	÷	116	1.2	÷.	1.5 1.6	-14	-t.3	21-	A	2	-1.2	1553	342.708	.,
29 Ai614454 reduced in osteosederosis transporter	kidney; mammary gland	kidn	4.L3.4	-12	5	Ŧ	1.6	2.7	23 25	77	-13	23	2.5	¥.	1.5	-1.5	\$27.5	833.458	0
187 AA760302 beta-glucuronidase structural	kidney	kidn	1	17	2	7	7 7	<u> </u>	-13	7	- F		7	2	-	3	4441	684,167	
219 AA162217 pre-B-cell colony-enhancing factor	liver	kidn	F .	22 13	F)	97	11.75 11.3		=		-	_	21.4			2	-	8KP4.458	5
222 AAS11089 glunathione S-transferase, thera 2	liver	kidn	1.8	5- 5-		51-	1.14	7	1.4 -1.4	22 -16	34 -14	-	5		-19 -19	2	1.6 8833	1075.83	-
AA617362_low_density_lipoprotein_receptor-	stomach	kidn	4.9	17 17	£.	<u> </u>	5 1	12 -1,6 -1	++	13 .15	12+-18	 	1,7		-	. E.	3659	416.292	61
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AIS87821 solute carrier family 22 (organic cation tran		-			2 2		-		-			0.7				5	1,	E	100	e	
	ייייייייייייייייייייייייייייייייייייייי	Ę.	+	7	+	4.1	_	7-		\vdash	7		_		1	$\overline{}$		-	1451.83		_
	inte	kiđn, pl/ut		61		-		1.1	7	11	4.4	2.1	17		5.	80 J	-12" -4.2	ñ	SH.23	Þ	,
254 W14224 N-myc_downstream_regulated_1	1 mammary gland	kidn, pl/ut	3.1	1.5	22 47	\$ 7	-17	}	-1.2	7	- 7 - 4	10	7 []	A.e		l a	4.14	1596	1617.54		- 1
AA674392 ESTs_Moderately_similar_to_A23772_LINE- 30 [Lhypotherical_proteinmouss_[IA/musculus]	2	(iv	. <u>0</u>	7	9 <u>9</u>	\$ 11.5° ±	- N	14 CH	= =		1,4	4.3	-15	ŋ	17 4.1	4.	8 1	2469	1363.88	•	
A1390182 ESTS, Weiskly similar to KUCE HUMANI C.	_	liv	, 2	ækrå	13	401113	도 전	79	2 5	61.		42	-1.5	=	41 44	- 12	, e	4085 53	61275	-	
207 AA272831 betaine-homocysteine methyltransferase	l Íver	N.	32.41	2.9.	an Ec	2	'n	28	62	S.	2	7	4.5	7	35.	18	1.10	릙	552.375	-	Т
205 AA572640 RIKEN cDNA 1700124F02 gene	1 liver	liv	49:T	1.2+	77	17	=	=	Ē	£1+	± 1.	77	1.1	턴	-1.6	-13	19 -(.6	_	377.125	4	_
237 AI047988 RIKEN CDNA 2410041F14 gene.	1 liver	liv	5.	±	1	1	ũ	1.7	-	4.1.7	7	1.3+ 412	-1,5	ټ	7	1.1	-t:-	739	223 025	7	-1
211 AA106162 cytochronic P450, 2c29	l liver	lly	7	1	4		2	<u>‡</u>	1	. S. E.	∳ . -	22	2.3	Ç.	-		6.	12911	1672.08	۰	-
233 AA881013 cytochrome P450, 2c37	1 liver	līv	23 3	1.7	Ş-	7	<u>-</u>	7	7 7	4.2	77 C:	1.6-2.1	2.7 2.8	23	25	26.	2.5 -3.8	8416	X82.958	_	-
AI552452 solute carrier family 27 (fatty acid transport 20 er), member 5	i liver	lív	1.5		12	r.	7	1.6	÷	1.3	- C	2	-1.5	Ţ	6. .i.	1.8	14 -1.7	4632	483,043	0	Т
42 AI386058_scrum_albumin_variant	2 spicen; liver	liv	53	60	\$	33	GI S	8	# #	ę	7	Ħ	£ 5	Ż	12 22	ę	1.1	A2052	5574.92	=	
124 AA067003_gluathione_S-transferase,_mu_1		lív, blad	3.5. 6	- 77 - 79	2.9	2	12 1.6	<u>.</u>	£	2.6· 13	2	57	. e	N.a	2,5	22	4. i.e.	10568	3327.13	=	
214 AA261489 hypothetical protein, 154	i liver	liv, brain, Kidn	3.	ž.		27. 24	16	<u> </u>	2	7	1.7	e e i i	22 -23		ā Ministra	7	33	100	672.542	-	
111 AA230638 transcription factor-like protein ODA-10	t colon	liv, breast	1.3	*2 %	<u>.</u>		7	- <u>5</u>	_ <u>-</u> - <u>-</u> -	-1.1	1.5	11	1.1 53	-1.6	ئ 11		1		1995.58		
195 A1386062 carbonic anhydrase_3) liver	liv, breast	()	ं इं		5.7	- 15	2	80	2.4	-1.8	-15	- 17 - 17	4.4	: 12	Ģ	1	27314	2770.33		
209 W65070 ESTs	1 liver	liv, col	. P		-	i.		7 2		-1.3	5.1	1	-17	::	1.3	7	21	2304	FIXIB,46		_
215 W99034 ESTs	l liver	liv, col	1.3	-	7	9 9	Ξ	-11		-1.3	13	53	-1.2	_	51.4	-	21 21	3605	777.292	٥	
22 AA066225 selemoprotein P. plasma_1	2 intestine; colon	l iv, col, kidn	8	7 =	13	7	E)1-	91		1	21 21	- 2	7 13 in 17		- 1.6	7	17	13.84	6271.17		
220 W77429 selenium binding protein 1.	liver	liv, col, Jung, kidn	<u>៖ ទ</u>		78	7.7	9C	26.22			ą S	6.6 4.6	23	B ARAL	3.6	33	27 29	11761	2559.83	e	
	l intestine	liv, int	4.6	10 P	9		32 3.6	2			1,1		7.5 7.2	7.6	7 - 5.3	6.6	82 -81	\$730	1157.34	- 0	
175 AA237986 cytochrome P450, 3a25) intestine	liv, int	7 O	ģ			17.43	•		87	ž ų	2.6 23	1.7	- 5	7 2 7	ā	3.5	3847	\$29,375	Đ	
186 AA087441 RIKEN eDNA 0610011LD4 gene.	1 kidney	liv, int	<u></u>	2		7	•1:		- T	- F	2.2	*	1.2 4.3		13 4.6		<u>1</u>	1990	11.4		
-	l liver	lfv, fnt, blad, kidn	- 	- 19 19	35	÷	F. 4.1		-	\$ S	6				32		.3	19042	2495.03		
21 AA822098 apollipoprotein A-T	2 intesting; colon	liv, int, col	41	÷	-86	÷	13 1.6				, ¥	# 98	÷	5	· 1.5		£.	33407	M19.21		

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	AA510906_Mus_musculus_Cyp4v3_mRNA_for_family_4		liv, int,		1					: 24044	-27	77	7	22	٠ ٢	7 ?	924	887,667		
	cytochrome P450, complete cds AA290390_cell_death- indusing_DNA_fragmentation_factor_alpha_subunit-	colon	ily, int, col, kidn				- 7 - 7					25	4	10.00		2.6	815Z	1374 79		т
134		rialititaly grants	Ifv, fnt, kidn	_	25 -23		26 26		3250357	1.3 3.5	24 44	-26	4,3	 V:	4 4	4	3.7 14133	1947,54		
1		liver	liv, int, kidn	1.7+ 1.9+	1.44		1.7	* **	13+	-1.44	-13	1.4	1.44	12	1.3+	1.5	14 1071	249,833	=	
<u> </u>		liver	liv, int, kidn	3.9 3.2	17 -14		1.4	1 D	2	13	-13 23	r;	5	. 3 23 S	3,5 2,7	65	2.5 3014	375.777	=	т
		kidnev	liv, kidn	2.1 .2	17- 179-		31 2.6	4	3	.5.1 -1.4		9	1.4 -1.7		1.2		13857	2638 33		
<u> </u>		Riffrey	liv, kidn	61- 61	19 12		स	12-12-	Ą	j. 3,3 -1.3	13 4.8	4	-(3 -(.8	* *	2.5	ģ	13478	2436.96		Т
<u> </u>		Victory 1	liv kidn		2.1		<u>ខ</u> ខ	23 27	-12	27 -15	2.9 6.1	27	3.8		31 32	.3.6	\$ 8009	691,417		
3 3	AA096813 Funic domain ES1	Kuncy Janar Isi duan	liv. kidn		+		e.	T m			1.5. 2.1	-34	4.8 4.8		52 49	5.02	14663	1776 63		
3 3		liver Eldney	Iiv. kidn		. 9	* *	3,6	52	7.	13	1.4	-3.4	-5.3 -5.7		3 -34	Ş	6.5 20077	2338.5		
3	AA245848 hydroxysteroid dehydrogenase-3, delta<5>-3-	livet, Kuuley	liv. kidn	7		14. S	2.7 2.5			1.3 3.3	2.7 4.9	ដ	3.5 4.1		2 -19	3.9	4.7- 4749	614 458		
677		DAII.	liv kidn	_	T	: A	51 -1-	1.1	7	97 - #		41	1.1 -1.6) (6	-12 -16	Ŧ	4.8 2738	385.5		
430		Storing	liv. lune		1	•	1	13	2	: :		7	1.5 -1.6	1	1	-1.1	-1.3 \$777	1685.33		—т
122		1105	ling,					5 87	97	. 9 1	4.0	7.	47 32		63 -49	el #-	1.6 6716	1827.	0 63	1
<u>6</u>	NA_complete_cds	liver.	liv, lung,	3		1.5	, t	17	-2.6	2.1	77	4	1.3	F1 13	** D-18	53	2197	620,375		
717		li nee	liv, stom, col, biad,	-1.1+1.0+			1.33.3	-1-4-4	ji i	4 A	-14	T,	ellen i s	1.2	,	7	1.3 1473	378.542		
š <u> </u>	AAUZ/60/ hydroxysteroid in beta denydrogenias	iver	liv, stom, int	22		: : : : : : : : : : : : : : : : : : :			ein er eine	- 41	1.1	9:7	-1.4 -L6	91	1. 6.1-	ş	-f.1 2304	929.373		T
) 		1	lív, stom,	2.8	51- 51-			= = =	, F	<i>រ</i> ៃ ម៉ូ	77.	33	12 -14	t1	- 7 - 1	4	2 7335	1516		
6		noing.	liv kidn	2.0	- 		17	n n		27	÷:	- 6	32 28	79 10	25 4.0	3.5		\$18.878		
223		INCE	iang (*)	'n	1		57	77	3,	22 87		-1.3	-13	114	7.	5	1.1 2108	863.375	ت د	П
	T .	onders	lmg	41.	<u> </u>	7	Ť	7	4 4.1	73		51	£1.	-1.6		<u>약</u>	-1.6 [5915	5 2734.1	7 (0	ļ
147	specific receptor	colon	G																	l

E H

24.4	A A 775007 PIK HN CONA 4931419100 cene	luna	Jung.	£ 1-		12	12 -12	7	4.1	1.1 4.5		5. 数	77		#	2	1.4 -4.3	<u>- 1</u>	1211	343,625	
280		ueojus	June	5	11-	-19		2	15 18	12 15	-41	7	. 4	- F	29	ST-	et.	24	57182 48	66,1782	
98	_	stomech	lung	-	E E	2	- C		- F	13	1	 -	=	2	5	5	5	17	1384 397.	1.958	
4	A1158775_	stomach	Iung	4	£.	_		_	- 1	1- 61-	-1.4+ 314	1	1.2	£1	- 11	•5]	111		1416 437		
202		liver	lung, blad	- 14	-1.2	10.3	7 7	Ş	1.2 -1.2	£1-	- 14 - 14	C.	-	- K	2	1.3	1.6**	4	7	943,833 6	
157		intestine	lung, blad, pl/ut	1.5 -1.4	25 22	-13	-1.4	7	13 26	-1.4	1 5	3.3	3.8	9	- 7	1.41	2 3	1.4	1633	1659.29	
203		liver	lung, kidn	1.6.	5.8 -3.8		32	4	9.5- 6	41		ZI13	-62	5	*	8.2	.7.7	80 T	13274 19	1920.75	
200		liver	lung, kidn	7.5 7.6	4.5 -2.3	2	5.67	27	3.5	7 %	Ä	4	6.0	24 22	3	7	2 <u>1</u> .	1.1	23	(3/0.5	
135		colon	lung, pl/ut	13	2.2 -1.9	7	1.9	-1.6	:	1.1	74. <u>\$</u>	7	1.6		12	10 A	11	-1.4	340:	1389.75	
17		intestine	lung, pl/ut	<u>្</u> ១	17 -1.6	7	1.1	71	1.1	£	11.3	7.8	. 3	2	- 43		2 14.2	ŭ		766.042	
36	AA466852_cysteinc_rich_protein_61	lung; bladder	lung, pl/ut	12 13	1 1	-	=	Ξ.	111	÷ =		7 () ()	77		11		7	<u> </u>	16601	456 (933	T
91	AI326499 epidennal growth factor	bladder; mammary gland	none	.17	25 -67	유	8.5 -5.9	阜	12 -11	-11	28	-14 -17	-12	3.6	1.4	2,8	-14	17	1360 57	570.157	\neg
Ŕ	W36921_demilune_cell and parotid protein	bladder	none	 25	-16	. :9	S) 29	약	-19 -20	-15	F	-20 -23	. 59	77	-36	73	-23	ņ	28:01	2	
72	AA736749_submaxillary_gland_androgen_regulated_prot	bladder	поле	24 21	15 -8.9	7	3115	Ŧ	16 -13	9.1	무	-16 -24	7	55 42	26	ដុ	-19 -26	ž.	27.2	446.458	
75	AA760185 carbonic anhydrase 6	bladder	none	8	74	=	178 . 81	67	. Si	£1.	ņ	-24		4.5	-36	92	-29 41	29	2802 45	439,25 (
160	AA267673 EST\$	brain	попс	#.J	1	+1	-	5	12	2	1,440	- - - - -	7	2	7 2	2	1.3	2	(23)	330,308	
68	AA059783_Public_domain_EST	brain	попе	+1.1-	11+11	ī	1.4	ņ	1.64-1-74	-15	-1.34		1.0	5.	7.7 7.7	1.4	7 2	Ţ	17	79.833	Т
102	AA522311_RIKEN_cDNA_0610038P07_gene	brain	попе	7	1.6	7	1	Ţ	-11	7	7	-1.4	-1.6	5	T .	12	111	7	1351 49	499.5	Т
88	AA123314_ESTs_Highly_similar_to_S68176_TOG_prot	brain	попе	: ::	51- 51-	1.6	-1.3	4,4	ű ű	-15	-F-	- E	- 1	- - -	1.5 -1.	1.6	7			159,833	
103	AIS94945_RIKEN_CDNA_6330406P08_gene	brain	попе	<u>-</u>	1 6- 1.3	1.6+	<u>:</u>	=	13	2	+171	±:	-		1	2	<u>1</u>	± 1	Т	221,458	_
8	A1549687 RIKEN cDNA 5730406115 gene	brain	попе	7 5		97	-11	7 :	7 5		13+	- 5	ដ .	3 3 9 4	<u>- 3</u>	를 축 당 및	<u> </u>	3 :	21 2	265.95K	Т
<u> </u>	AAZ/0885 parvalburtin A A A G 2774 cmell muscle protein X linked	colon; placenta/ uterus	none	7 87		2	2 2	3 3		7 2	_	- 5		2	្រ ្	-		1 3	_	077.333	
2 2	AA671135 myosin heavy chain, cardiac muscle, adult	colon	none	-	9.5: (6	-	12 42		. 25 83	13.5	:2	-	4	7	2.6	 	35		271 172	761.625	Ι
126	126 AA795264 ubiquitin-like 1	colon	попе	6.5	5.6 -3.	16.1	3.8	Ę.	23	2 3.8	9 .	7 :		± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	5 -	5.F	4	9	$\neg \vdash$	598.167	Τ
108	A1893944 torkhead box G1 A1465074 mesodem specific transcript	colon	none	. 59	1 5	2	2 IS	9.5	21.2	177	÷,	-3.8	97	13	_	17	}	1.9	589	1304.42	Τ
146	AA727521 Mus musculus 11 kDs secreted protein pre- cursor, mRNA, complete eds	colon	none	12 -13	78 -1	34	4.5 -3.7	* *		55 57	.7	21	4//	2 2 2 2		9 66	73, 69	ri m	27511 10	1090.79	
153		intestine	none	-5.2	2	17	13		1.9. 43	7	21.	32 7.1	3	7	=	22	17	1.6		8014.25	-
182		kidney	none	7	10 78	7	9	ā			-	3.6	2			ন	31	77	_	1EX 019	Т
132	AA762401 ESTs	kidney	попе	1.0+	÷:	÷	<u>-</u>	7	1.2+1.2	7	<u>.</u> 5	=	3	5	2	12	:	2	35	367.542 8	Т
216	AA712088_3-hydroxy-3-methylgluaryl- Ccerzyme_A_reductase AA742388_retingle_and_enth_transcrint_parming	Liver	none	3,4	. A \$ 5	= 3	1.8	4 1	2.8	1.1	1.4	2, 21 12 21 11 22	4 7	. E	7 7	16 23	.12 11	: × -	1331 37	371.75	
1		104.11									1			7	ď				1]

Page 6

324	4 AA260931 peroxisomal biogenesis factor 11a	liver	tione	-1.3	+ 1-	F)	1.5	2	=	£1.	1.3	-1.8	8	1.7	11.35	-16	-7	13	1652	237 042	
131	Al509048 ATP-binding eassette, sub- family A (ABC1), member 8	liver	попе	-1.5+ -1.4+	-1.4+	7.	1.4+-13	÷2]-	± =	4.1+	1.1	-13	Ę		7	- F	# T	13	ឆ្ន	156135	9
224	AA068539 ESTS, Weakly similar to A57369 anilin - fruit fly [D.melanogaster]	liver	none	1.6 1.5	-12 -13	1 -2,3	1-15	-	7	Ţ 2	.13	-£3		- -	91. 91.				522	293,583	
33	-	lung; bladder	попе	-45 -53.	-1.1	55 31	37 -118	36	Q.	⊊ ₽	9	<i>₹</i>	ş	\$ \$ \$ \$	۶ ۲	-6.4	 Ε(-	75 27	8202	1537,21	5
247	7 AA433639 heat shock protein_cognate_70_testis	gun)	nonê	1 -17	28 32	-1.2 -1.1	1.1	1.8	77		4.	1.7 2.1	1,4	- 7	1.4	드	7		1600	ERS (DF)	_ =
256		mammary pland	попе	5.n -64	4,4	3.6	7	2.7	7	3	न १ र	48.	7	7. T	4	77	7 2 7	 	95	55 51	-
259		mammary gland	none	1.1	13 -13	17- 1-	-1.3	-13	1.1	1.1 1.3+	-13	-13	-11	-(3 -13	-1.1	17	1	52.	£48	200, 200	1
251		mammary gland	none	3.5 -6.1	3.8 -2.1	3.8 2.5	-2.7	3.6	3.9	3.1	7	1.2 5.2	3.7	3.3 -2.7	7	43	4	7.5 2.7	OR4	276.375	٥
-	AA469630_sholine_kinase	pancreas; stomach; intestine; lung; bladder; placental uterus; marxnary gland	попе	4 -1.7	91 16	-1.3 1.1	1.5	5	į.	-5 -7	7	1.19	- 1. - 1.	7. 11.	£ 5	E)	-).6 -).6	51 51:	1621	601,042	
265	A1180799 guanine nucleonde bluding protein, alpha sti	pancreas	none	-1.9 -1.9	-16 43	2,4 2.6	2.8 -1.5	. 23	24	2.7 2.2	1.	15	7 2	13	42 -17	2	-1.1	4.3 4.3	252	3115.88	
270		pancreas	none	2.4 -29	61- 451 35	17 71	71 CT-	3.8	3.6	4.6 6.4	52.3	37. 4		3.4 3.8	8. 8.	5.5		7	13483	3622.63	6
287	1	spieen	none	1.5 -1.3	6 . 2	3.1	3.5. 3.8	.25	1.8	4.4	-1.2	17 2.1	1.8	1.2 -1.3	22 -13	3 (1)	-	17 23	12749	4118.71	ij.
5		stomach; brain	попе	-14-19	1.5 1.3	C1- 43-	1.4	7	-1.6	1,2 1,2	7.	11	13	디디	1.3	-1.5	-1,3	1.1 4.3	3123	MAL HGL	0
5		stomach; brain; placenta/ uterus; mammary	none	1.2	13	:1- :1-	16 -1.6	ž	4		÷		181	7 7	7	<u> </u>	1.3	9.1	300	233.625	61
23	Т	stomach; colon	none	1.2 1.3	41	1.5 1.4*		£.	-	_	7	1.2	-1.2		1.2 -1.3		Ξ.	1.1	132	1000.67	0
71	AA544433_dihydroorotate_deliydrogenase 2	stomach; placenta/ uterus	none	1.12	24	-	3	13	F)	-	+	2	-	$\overline{}$			7		(33K	351.833	_
72		stomach; placenta/ uterus	none	\neg	£.1- 1-	-1.9 -1.6	_	-	7	_	1.6	3.		-		-	7	~	7693	1764.17	
2	AI553232 ribosomal protein S6	stomach; placenta/ uterus	попе	1.5 1.3	13	11 11	13 -16	17	-	<u>+</u>	-	2	- 	₹ 2	13	2	7	7 []	1385	608.25	_
368	AAA288247_ESTR, Weakly_similar_to_MRP5_MOUSE_ MULTIDRUG_RESISTANCE. R_ASSOCIATED_PROTEIN_5_[M_muscalus]	stomach	none	7	115		đ		2	1.1 124	± 1		=	2	7	7	7	.c.	1642	373,625	72
304		stomach	none	1.1 -1	91	12+ 13	1.	-	2	<u>t</u>	<u>7</u>	2	21	<u>ت</u>	1.3	2	4	<u>n</u>	1147	314.375	
398	8 AISSOGIT ESTS	stomach	none	1.2 [.3	91	21			5	<u>+</u>	Ē	2	-	= =	= =	2	-01	4.1	9521	332	-
302		stomach	none	1.2	1.5	1.1+	Ž,	3	7	1	1.3	2	=	3	<u>1</u>	=	-	17	1991	407,875	ri
473	9 AA607983 zinc finger protein 101	stomach	none	1.1 -1.1+	12	-1.3+ 1.1	1	7	T 	4 7	÷	1.3	-1.2	7	77	2	7	4.13	786	345	
402	2 AA116829 RIKEN CDNA 2610018G03 gene	stomach	none	17-	91	-1.1		9 2	 	7		-1.3	4	7	1.1	3.1.1	-13	다 다	1882	732.708	5
322	322 AA466199 RIKEN cDNA 2410055N02 gene	stomach	none	4.1-41.1+	1.5	E) +	-1- -1-	2	5	<u>t.</u>	<u>∓</u>	- -	7	- 2	9°F-	<u>n</u>	17	=	619	237.067	-
383	3 Al643201 Mus_musculus_TOB3_mRNA_complete_cds 1	stoniach	попе	-1.1	11 0 -	11-	1.6	. 3	7 2	1.4 4.6	<u>d</u>	1.5	2		7	7	7	÷	804	210.583	
310	0 A3549635 ESTs	stomach	лопе	4.1 4.2	F F1	-1.5	51 15	17.	1.1	1.1	7	11.	=	17 - 21	7	112	다	13	2002	554,667	۲,
6	A1430438 RIKEN cDNA 3110023G01 gene	brain	panc	1.1	<u> 12</u>	1.4	į	3		ţ	17		<u></u>	<u> </u>	-	2		5	1991	714.75	-
50	5 AA253844 ESTs	brain	panc	1.2 -1.2*	, e	12 13	Ī	<u></u>	٦ 2	13	7	1.2	ם	:	1.4 1.2	<u>:</u>			1491	530.083	۰
37	T	lung; bladder	panc	27 52		-15	9 6.7	63	¥.	.8. 8.3.7	*i* 4		75	5.1.37	£1.	*	Ż.	39	40437	5369.58	_=
248	8 AA388685 ESTs	lung	panc	13 -(5		1.1		2	_	- =	1.5+4	-	Ξ	13-4-13	113	13.	-1.2	-	970	314.083	-
.0	A1549624 RIKEN cDNA 0610041E09 gene	pancreas; stomach; intestine; lung; bladder; placenta/ uterus; marmary gland	panc	1 -1.6		-1.3	4 1 9 -1.6	4.	4.	5	1	4.9	4.1	17.	13	<u>n</u>	. 호	<u>ت</u>	134	551.208	
272	2 A1597421 EST8	pancreas	panc	1.1 -1.2		11	1.1	· <u>=</u>		-		- 13	-	11 -12	51	2	17	13.	20:53	1945.96	_
273	273 AA223023 nescient helix Ioop helix i	pancreas	panc	1.2 -1.2	í	17	1.5	. 🖺		=	7	-12 1.20		-13	1.1	7	2	7	3311	1300.83	ů.
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	AA571565 ESTs, Moderately similar to 138863 EIB 1							-	-	· ·	•	-13	- 7	-	77		1.5 1.2	- 7	346	2295.83	
275 9K/Bcl-2-ir	9K/Bcl-2-interacting protein Nipl [H.sapiens]	panci		panc	<u>-</u>		;; ;;	. : s :	2 :	. : - .		: :	5	. [.				\top	-	30,011	
274 AA162226	274 AA162226 Public domain EST	pancreas		panc	_			7	=	-	77	_	_	-	4			_		2110.65	
39 AI876997	AI876997_carboxyl_ester_lipase	place	placenta/uterus; mammary gland	panc	5.9 4.9			-73	÷	Q+	2	_	-		7	-		_	-	6335.5H	
41 AA821884	AA821884 amylase 2, pancreatic	spiec		рапс	3 -9.4	i i	96	-2 1.4	-30 : 1.1	1 24	.,	55 43	11	-	종 구		. 1	_		7200.17	
285 AA982254	AA982254 RIKEN cDNA 2210010C04 gene,	spleen		panc	-5.4 -13	100	-18 - 14	2.8	7	9 51	er er	19 13	9.7	ņ	∺	;;	6- F	ę Ç	\$2778	5301.75	٥
288 AA674409	AA674409 pancreatic lipase related protein 1	spleen		panc	4.9 -10		-13 -9.1	-1.91.1	7	-1.4 4.2	-	15 -15	9.5	약	8.9 -20	-19	-10 -16	-1 -1 -2	61019	5255	2
282 AA675084	AA675084 elastase 2	spleen		рапс	4.3 -13	i,	27 23	1.1	26	12 56	7.6	36 31	14 .73	23	14 56	무	-39	, S	5533	5770,92	۵
1	T HOTE	stoms	h: bjadder	panc	1:1- 2:1		13 12	7	1.3	7	1	1.2* -1.4	4	13	-1.5	1	1,4 -1,3	1.4	2200	1012.83	5
т	AA153231 Public domain FST	Stores	ach: bladder: placenta/items	Danc	-1 -13	4	1 11	211-	1.5	13.	2	1.1	- <u>-</u>	5	-1.6	7	13 -1.5	13 -1.3	77.34	1203.83	
1	AA561920_RalBP1_associated_Eps_domain_containing_						!		3	-				3			11	- 5	1,1	27K 372	9
10 protein	3	stoms	ach; bladder; placenta/uterus	panc			1			+		_	7-	+	-	_	_		_		
AA940207	AA940207_calcium/calmodulin- dependent protein kinase kinase 1, alpha	stom	ach; bladder; mammary gland	panc	1.4 -[.]*		11 21	111	1.3	1.12	=	-1.1-	1.6	13.	£1- 6.1	7	1.4* -1.2*	1,500 -1.20	£5.	130	c
T	AA469724 WW domain binding protein 5	stoms	ach; bladder	panc	1 -1,3	181	-1.1	1.1	1.2	7	딕	1. 14	4.1 -1.2	13	-1.6	7	12 -13	13 43	34.51	1365.83	5
Τ_	i ESTS	STOTE	ach: brain	panc	1 -1.3	達	1.1	į.	9 1		115	3 41	13	13	1.1	-	1.1	13 -1.3	2815	1143,38	
Г	HYTe 2	Stoma	ach: brain	panc	-1.1 -1.3	277	13	17-	1.3 -1	C]- C]	1.f+	2 .12	17	1.	13 1.1	17	1.4 -1.1	1.4	5673	377.542	
Т	A & 412021 PIKEN - DNA 4021514[20 crepe	stons	ach' brain	panc	1.	*	2) 21	7	2	7	17	5 - 53	1	11	12	13	1.6 -1	1,0.1	798	305.438	
Т	Tod.	100	ach intestine fine	panc	1 -12	91 18	1.24	17-	-	Ξ	1.4	1.0	1.1.	971	17	7	1.3 -1.4	13 -1.4	3117	1073.04	0
	A ALCOCAL DESIGNATION OF THE PROPERTY OF THE P	į	de l'acce	nanc	11-11		51	7	3. 2.	7	71	\$1· £.	1.3•	13	7.7	11.72	1,5	1.6	1532	£R0.804	
6/07/47/00	MAKEN CLIMS COCOCOCO Bene	stoms					1														
4 AI481982 EST	EST	place	placenta/uterus;mammary gland	panc	12 -12			-17	1	77	÷	1.4	o.	1.4*	?		1.6 -1.3	.er	1212	0/0.342	
7 AA623175 ESTS	ESTS	StOms	vuerus	panc	1.1	- A	-1,4 -1.1	13	13	11	-1.7*		- ^김	-D	10 11		141.6	13	(037	452.X75	
Τ	B ESTs	торы	ach; mammary gland	panc	1.6	1	1.1	-13	7 51	4.2	**	-1.6	1.11.1	1.1	ئ. تا	[] []	5	7. 7.	1980	709 292	_
Т) FSTs	stomos	ach: manunary izland	panc	1 -1.3	×	7 17	1.	1.3	-1,1	-f.f+	4 13	1.1 -1.2	2 1.5	1.1	-	1.4 -1.3	1.4 -1.3	157	403.167	-
1	AA623060 RIKEN CINA 24101241.17 cene	stom	ach: nfacenta/uterus :mammary eland	рапс	13 -12	104	13 13	77	• • • • • • • • • • • • • • • • • • • •	5	5	.2• -1.4	1.1-	1.23	-1,4 1.5	-	1.5	1613	5801	853.875	D
T	A 1604684 BIKEN a DNA 4631422013 oene	stoms	ach	panc	1.1-1.1		12 13	-	1	11	*+1*	2 -13	1.3	1.3	-1.1	3 1.2	13	7 7	3301	1024 75	
+-	FGTs	storus	ach	panc	1.1 4.1	31.	13 1.3	-	3 +7	1.3	1.3+*	41.1	71	1.3	-1.1	11 8	LJ- E.I	13 1	3474	947.625	_
	TARTE (stom	aci	рапс	11- 11	19.7 19.3 1	\$1 C1	- -	1 7 1	7	1 7	9	17	13	-1	-17	1.3 -1.2	13	1.77	535 083	_
_	AA450452 RIKEN CONA 8430430L24 gene	stoms	ach	panc	11- 11		1	7	ב	2	-1.2+	-12	7 11	17	13		12 42	12 -1.1	324)	1005.17	_
_	AA562544 RIKEN cDNA 1110035L05 gene	storna	ıach	panc	1.2 -1.1		1.1	16	2	11	•	3 -12	- 	112	-1.2		다 [1	-7- E1	3614	1228 08	
	A1325781 ESTs, Weakly similar to \$37771 ankyrin, er ythrocyte - mouse [M.misculus]	Stom	ach	рапс	13 -61		1.3 1.4	Ţ	1.6	2	<u>;</u>	7 3	1.6	2	13.	-	7. 7.	7	929	880.833	
	AA671409_corel_UDP-galactosetN-acetylgalactosamine- atrho.P_bera_13-collectoryllrans/erase_1	stomach		panc	12 -12		11	i i i i		E.	<u>.</u>	7	7 2	2	-1.1	7	7		2518	845.792	
	AA066256 Public domain EST	stomach		panc	1 -1.1		1.1	11.	7	23	-12+	ņ	17	2	-1.3	5	- E1	17- 51	9251	603.875	-
_	AA267824 Public domain EST	stomach		panc	1.2 -1.1	2	1.1	I.	÷		<u>+</u>		2	[]	-1.2	7	13 4.2	12 13	3439	831.417	
	AA833196 RIXEN CONA 4932431F02 gene.	stomach		panc	1.2 -1.1	数	2	į.	5.1	-	•17	9	2	ä	1.5	- 2	17 E1	47	2340	521.86	.0
	AI608071 RIKEN cDNA 2900017D14 gene	stomach		panc	1.1	i A	11		2	7	=		τ 3	2	_		_		_	1012.33	
407 AA395924 ESTs	t ESTs	stomach		panc	1.2 -1.1	5			2	4	_		<u>=</u>	입	64			2 		871.417	-
418 AA270832 ESTs	2 ESTs	stomach		panc	1.3 -1.1		1.1	11-	2	11	•	112	Ξ 3	12	- -	51	F 50	13 -12	2022	718.75	_
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				CONTRACTOR OF STREET	100			ŀ			•				-	Γ
420 A1463731 ESTs	stomach	panc	1.1 -1.1	4		1.1* 1.3	7	-	1.5 -1	2	4.2 1.3 -1	1.1	43 13 43	3059	1 800.389	1
422 AA273401 Public domain EST	stomach	panc	11 -13*	n L	11 1	-1.1 -1.1	- -	2	13	1,2*	1.4 -1	1.1 1.4* -1	1.2 1.4* 4.2	3649	1505,13 0	Т
374 AI549656 RIKEN cDNA 3632413F13 gene	stomach	panc	1 2 1		13*	1.1	1 11	<u> </u>	F 17	12	7	7 5	7	9262	1867.04 ()	1
	Etymorp	panc	<u> </u>		:	1.3	1	£1	1.6 112	2	<u> </u>	<u>.</u>	17.	2077	435 958 2	
282 A A 260702 DIVEN DINA 1110065477 Gene	stomarh	panc	7	12	13	7	7	11+113	9	13	1.3	1 63	1.4	1732	Sr6 458 1	
	stomach	panc	1 -12	1 13	3 13 195	1.4	11-	2	13 -1	21	1.4	1- 2%	13 () 4.2	1321	803.458 G	
	stomacii	panc	1.1	1 (3:1	3 13 25	1.1	1.1	+	4.1 1.4** 1.1	7	1,1	1 11	13 43	1377	391,348 2	1
$\overline{}$	stonach	panc	17- 17	1 12	2 16	-		1 1+* 1.3	13 15 -1	1.5		1.1	57 57	3115	034.75 1	
	stomach	panc	111 -111	- 41	1 13 18	9 -	12	1.21	1.1	2	57	E E E	-1.2	3487	1 51 2 801	
424 AA412912 ESTs	stomach	panc	-1 -12	177	1 15 22	-1 1.5	=	1.2+- 1.3	11:	2	1	2	7 17	6KG1	646.45X 1	1
	stomach	panc	-1.4		1.5	-:	1-1	F.H.	113	2	7 17	12 13 -1	13 13	Ter:	285	Ţ
T	stomach	panc	1.3		1 12 13	1.1	7	12 13	77	41 11 4	1.	- I	17 21 17	2598	1157,92 0	
+-	stomach	panc	-1.1 1.1+		81 1	-	11 11	16+* 1.4	1.5	1.5	1. 1.	1 [3•	3	1112	(33.5 2	
	stomach	рапс	1.1 -12	17	21 1.	<u>.</u>	11	1.2+	1.1	2	<u>-</u>	51	13	1001	(05.70K 1	T
	stomach	panc	1- 1	6 17	3 1.4	_	12	1.44		2	'n	2	-	21/2	538 007	-
382 AJ464600 ESTs	stomach	panc	1.1 -1.1	•	15	1.1	11	1.3+ 1.4	1.6	12 14 1.	1.6	1.2	1.4	1649	438,458	7
	stomach	рапс	1.1.1	1	1.4	1.2 1.6	7	3	- 3	_	를 달 달			1275	362,333	Т
370 AA516997 kinase suppressor of ras	stomach	ралс	-1.1 -12	91 6	4	.al	11 13	112	-	-	3	2	3	2189	1 22 21	Т
338 AA591510 homeo_box_Bl	stomach	pane	-1,2 -1,1	6	1 15	į	2	-	2	-	\neg	2 :	3	12.	27.23	Т
409 AA798385 ESTs	stomach	panc	13 17	11.	=		17-	J.	2	+	-	2	2	1313	313,93%	Τ
432 AJ592746 ESTs	stomach	panc	- 1	81				n :	- :	2 :	_	: :	-12 13	689	(K)	Τ
312 AA646049 interleukin 13	stomach	рапс	-13		•	<u>.</u> i	£	14+		2	2			R	- WATER	1
AA739464_killer_cell_lectin- 331 like recentor subfamily A, member 9	stomach .	panc	1.1- 2.1	6	2 13	1	17-	27		2	2	2	- F	3834	133.67	
	ւրտուի	panc	- 5		2 2		51	1.4		- ¥	2	1.1	1,4	2332	916 833 9	
╨	stonach	panc	1.1 -1.2	4	1 13	1-1		7.7	-	11 13	-1,1	1. 1.1	-1.2 1.2 -1.2	(20)	1 878.000	-
	stomach	paric	-1.1 -1.3	M	11 13	-	13	13	- 971 119	<u>-</u>	- F3	- 11	17-	1730	521.583	\neg
319 AA058211 ESTs	stonach	panc	1.1 -1.2	10.00	1.3 1.3	-1.1	13	13	3,111	1.2 1.	2	1.1	21 17-	2419	123.83 u	Т
	stomach	pane	17		12 14 21	1.1	51	-13+	17	13	2	2	-1.1	1984	57r.938 3	
_	зтопие ћ	рапс	1.3	*	114 -140	2	13	1.3+ 1.4	2	5]	3 17	1.2	1.1	2427	468.D42 3	1
_	stomach	panc	1.4 -L.5	(S)	1 1.6	-1.2	7	: :	-1.4	17	-1.4		7 []-	43 199	883,292	T
	stomech	panc	-1 -1.4		12 [1]	97] 17-	т Т	4 <u>1</u>	4. 	2	- 13	•	1.2	1.2 1593	413.417 2	Т
_	stomach	panc	1.1[3 1.6	1	1.4	1.4 1.4	1.1 1.6 1	1.4 1	1 1.3	-111		-1.1 2855	1081.92	
	stomach	panc	4.1 1.1		51 11	1.6	-1 1.4	-1.1+	1.6	-	1	1.1	12 21	2206	531.917	1
	stomech	panc	. <u> </u>		12 4	-1.3	4.1 -1.3	1.14	<u> </u>	2	-13	95 I	1.3	.1.f 1484	1 5292	
	stomach	panc	1.3 [1]		1.4	-1.1	177	F.	12 17	27	5	13	4.1 1.4 f.	1473	1 1 1	Т
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con fractional Bankows - production																

126	A7789680 FSTs		stomach	Dame	#	1	1		9]	13	-\$1	1 7	1.1	1.3	12 12	12 12	Ω	.3 [1]	1001	5	
346	AA607043 RIKEN cDNA 2400007G07 gene.	_	stomach	рапс	1 -1.:	975	1.6	-	*	1.1	12+•	1.1. 2.1	11. 21	7.7	1.5	5	-7	7	9027 gr	M2375 1	T
361		_	stomach	panc	51	## ±		Ţ	13		T I	13 41	: :	*	2	-1.1•	ij	12 -1.1	11 8892	1646,73 B	
332	_		stomach		1.1	40	13 13	· ·	11	11	1.1+	13 40	1.3 1.2	13	5	1.3	7	7 9		471.375 2	Т
417			stomach	pent.	7	- 1 - 20 - 20	2	Ţ	4.1	7	3	13- 51	13 -11	3	1.3	5 5	17	5 5	\neg	0 802,51	Τ
362		_	stomach	panc	7		12	7	=	7	<u>:</u>	£.	:	<u>*</u>	20	4.)	-11	7		379,917	T
9	AA517691 ESTs	ı	stomach	panc	12 4.1		=	Į	 4	-	7	1.4 -1.3	-	2	-1.3 1.4	1.1 1.4	: ::	-1.1	1947 K	K23	Т
433	AA638805 Public domain EST		stomach	panc		\$1 \$2	2	ż	4.1 1.5	1		13 (2	1.30		1,1	<u>n</u>	<u>-</u>	<u>1</u>		662.417	_
301			stomach	panc		1	1.1+ 16	2	4	2	<u>*</u>	1.4+	-		1.4	ž.	3	3.	1521	352.458 3	T
3.15	AA709668 ESTs	_	stomach	panc	<u>-</u>		1.4 1.6	X	=	13	±	7	-	9,1		1.1			-	399.208	Т
596	AI614679 ESTs	_	stomach	panc -	7	, ,	12 13	-	1.5	1.3	=	13 13	51	1.4	E1 E1	17	<u> </u>	7.7	3573	194,83 0	Т
367	A1450469 ESTs	_	stomach	panc	7	7. *	1.2 1.4	7	4.	1.1	22	13		2	1.	=	£.	2 41	33%11	1103.5	П
328	AA616077 ESTs		stomach	panc	1.2	1; 4;	-	'n	12 16	17	11+	13 41	1.4	2	<u>-</u>	1.1	7	-		48 6, 7118 1	1
350	AA268913_flavin_centaining_monooxygenase_5	Į.	stomach	рапс	-		1.1: 12	X	=	5	Ģ.	1.4+ 1.1	1.2	ņ	1.5	<u>1</u>	-	-	1570 4	4135	T
351	AA210560 Mus_musculus, Similar to RIKEN_cDNA_1 50004JN16_gene_clone_MGC12066,_mRNA_complete cds		stonnach	ряпс	7	े हैं। इ.स. <u>व</u>		*	13		<u> </u>	1.11	16 1	55	61-	1.3	-	7	1036	43.107 2	
	AI607675 Mus_musculus_clone_MGC.7865,_mRNA,_c		stomach	pane	<u>.</u> 9	37	13		13	1.1	2-12	12 42	5 15	ב	1.1	.i.	;; ;;		1789 8	815 958 n	
10.4	$\overline{}$	_	stomaci	panc	1 -1.2		1.1	7	1.0	1.3	1.1	13 43	1	12	£.1	1,3	달	17-	1523	1 802 595	7
4			stomach		13 4.2	**	11	X	7	1.1	1.2+	1.4 -1.3		1.5	-1.2 1.5	1.2 1.4	-1.1	5 -1.1	1615 St	501417	7
5		_	stomach	panc	-13		7	2	63	~ ~	7	1.1* -1.4	1.3	1.3	1.4 1.4	1.5	-13	3 43	5002	918,708 4	
435	AA623587 ESTs		stomach	panc	17	**	1 1.3	7	1.1	7	1.1	13 -(2	13-13	ij	1.3	13	-63	4 4.3	1649 5	519.958	
444	A A 259281 LIM homeobox protein 2	_	stomach	panc	13 4.1	14.4	1.1	7	1 (3	11-	•	1.1	1,6	=	-1.3 1.6	1.2 1.4	Ę	11	202	1058.46	_
324		_	stomack	panc	1.2	1	7		7	1.1	1,61	71	1.1 -2	Ξ	9	î.	7	-	2022	506.75	
410		_	stomach	panc	<u>;;</u>	2	2	ā	2	<u>-</u>	1. Fe	1.3 -4.4	<u></u>	2	12	-t.f	-12	.3 -4.2	13%	1 291.722	1
3 18	AA259871 hypothetical protein, MNCb-4414	1	stomach	panc	-		11 C	0.0	디	77	÷	13.	£1 2	2	2	1,4	3	17	\neg	576	n.
425		1	stomach	partc	-	61	п П	9 2	4.3 1.4	1.1	-	1.2 -1.1	5	Ξ	12 2	ξ. Σ	_	1	15118	743.667 n	Т
4 7		,,	stomach	panc	F;	eri L	-		1.1* 1.3	-	±1.1-	1.10 -1.6	1.4	<u>.</u>	(3	7 E	草	77	1479 6	670.125 1	
417		-	stomach	panc	1.1		-1.1	Q	4.3	7	±	-1.4	1.6 -1.2	3	1.3	£ .	5	77	7 2112	702.125	
369		1	stomach	рапс	1.1 -1.5	: 3 : 1	7		13	- E	1.4	1.5	1,3		13	: :	7	7	2435	730.917	T
323	AA060731_nuclear_factor_interleukin_3, regulated	_	stomach	panc	1 -13	0	2	1.6	17	-1.1	2 -1 4+	-14	-	2	13	1.1	3	7	£ 3	364.792	Т
347	AA638198_gap_junction_membrane_channel_protein_bet a 3	-	stomach	panc	1.2 4.4				12 12	7	: []	. 1 -13	12	Ŧ	1.4	± .	1	- 1	1421 4	495,917	
393	393 AIS30661 RIKEN CDNA 2810426N06 gene	1	stomach	panc	1.6 1.1		-		1.1	5	3 1.1	1.1	3	17	1.3	53 53	77	-77	\neg	294,208	Т
358	358 A1466825 RIKEN cDNA A330103N21 gene	_	stomach	panc	1 -1.4	S.	[] [T.	17	7	1.1-	1	1 9")	1.6	12	1.2	달	7	1327	0 57801	
421	421 AA162023 ESTs		stomach	panc	4,1 51.4		_		1,4	7	-134	1.1* -1.6		11	1.6	: 무	7	1.3	2817 9	52.62	Т
329	AA611551_Mest-linked_imprinted_transcript_1		stomach	panc, brain	÷:		17 17		1.1	7	ţ.	1.4 -1.5		7	3	5 5	무	2	1612 4	448,667	
436	AA277192 RIKEN cDNA 2906075A18 genc	_	stomach	panc, brain	4.4 -15		-1.2		1.1	7	13 -13+	-1.4		7]		-12	41	51	7,527	761,378	
291	291 AI117905 RIKEN cDNA 6530406M24 gene		stomach	panc, brain	1.2		51		1.1	: #1 ::	<u>.</u>	17	<u>.</u>	17- 17-	73	 	13	1.1-	913	16.342 2	
281	281 A1550886 RIKEN cDNA 1810010M01 gene	_	piacenta/uterus	panc, col	13 25	, j.	-2.2 -1.9	21	-1.2	##### #		1.6 6.1	3,1 28		2.1 2.6	31 -16	Я	-1.6	17580 3	3587.5 0	
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Page 10

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10 10 10 10 10 10 10 10 10 10 10 10 10 1	1 liver
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4.1 + 12	701
35 36 36	חומחתנו
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4.6 -1.7 W	AA002994_ESTS_Moderately_similar_to_No_similarities 1. no new renormed mincine H-studiens 2. stomach brain
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	3 fiver; intestine; colon

AA929696 peptidyl arginine_deiminase_typ2_II I I I	h pane, h pane? 1	Settle Address		F1	12 13	•	:	-	13 14 15	ភិ ភ		ENDE			
AA871416_RIKEN_CDNA_1196004M21_gene 1 AA823422_EST3 AA687199_sittinin_1(silent_matting_type_information_r_legulation_2_homology_1_16_cerevisiae) A4569561_RIKEN_CDNA_241004K02_gene 1 A1599651_RIKEN_CDNA_2410001D07_gene 1 A1597825_RIKEN_CDNA_1300017N15_gene 1 AA607236_fibroblast_growth_factor_receptor_1 AAA07236_fibroblast_growth_factor_receptor_1 AAA01376_cathepsin_J. 1 AAA013776_cathepsin_J. 1 AAA20024_tropholoblast_specific_protein_1 AAA20024_contentrie_T_Normbrocute_1 AAA11677_cathersin_J. 1 AAA11677_cathersin_J. 1 AAA20024_contentrie_T_Normbrocute_1 AAA11677_cathersin_J. 1 AAA1167_cathersin_J. 1		E			_		١	ĺ					-	654.458	
AA823452 ESTS AA687799 sixtuin 1 ((si)ent mating type informetion regulation 2, homology 1 (S. cerevisiae) AL649661 RIKEN cDNA, 2410044K02, gene AL649643 RIKEN cDNA, 1300017N1S, gene AA667236 fibroblast growth factor receptor 1 AA677365 Mus musculus MRPS6 mRNA for mitochondrial ribosomal protein S6, partial cds AA603726 cathepsin J AA420024 trophoblast specific protein 1 AA421076 extenoxic T Nembrocute.				- CONTRACTOR	Ţ	3	£1		1.4	-	13	2	333	ND4	_
AA687789_sirtuin_1 ((sileut_mating_type_informetion_r_legulation_2_homology_1 (Scerevi/sile) AL649661_RIXEN_cDNA_2410044K02_gene AL649642_RIXEN_cDNA_1300017N15_gene AA667236_fibroblast_growth_factor_receptor_1 AA671365_Mus_musculus_MRP66_mRNA_for_mitochondrial_ribosomal_protein_S6_partial_cds AAA230024_trophoblast_specific_protein_1 AAA220024_trophoblast_specific_protein_1 AAA220024_conthorsit_1_Normbrocute_1 AAA21065_channyie_T_Normbrocute_1 AAA220024_conthorsit_1_Normbrocute_1 AAA21065_channyie_T_Normbrocute_1 AAA21067_conthorsit_1_Normbrocute_1 AAA21067_conthorsit_1_Normbrocute_1 AAA21067_conthorsit_1_Normbrocute_1 AAA21067_conthorsit_1_Normbrocute_1 AAA21067_Conthorsit_1_Normbrocute_1 AAA21067_Conthorsit_1_Normbrocute_1 AAA21067_Conthorsit_1_Normbrocute_1 AAA21067_Conthorsit_1_Normbrocute_1 AAA711667_conthorsit_1_Normbrocute_1 AAA21067_conthorsit_1_Normbrocute_1_Normbrocute_1 AAA21067_conthorsit_1_Normbrocute_1_Normb		ciii		נין	124	471	12+ 12+	1.14	1.8.1	114 14	1. 21 2.1	1,4	106 +1-	207. OCT	
ALS49661 RIKEN cDNA 2410044K02 gene ALS49643 RIKEN cDNA 1300017N15 gene ALS67225 RIKEN cDNA 0710001D07 gene AA607236 fibroblast growth factor receptor 1 AA571365 Mus musculus MRP86 mRNA for mitocho radral ribosomal protein S6, partial cds AA013726 cathebra 1, S6, partial cds AA4220024 trophoblast specific protein 1 AA42104767 extenoxie T Nembrocute.		5 T 9 15		1.2	13.1	17- 71	11+	1.6	-1.1	11	::	•C.1	1980	418.25	_
ALS99642 RIKEN GDNA, 1300017N15, gene ALS87825 RIKEN GDNA, 0710001D07, gene AA067236, fibroblast, growth, factor_receptor_1 AA571365 Mus musculus MRP86 mRNA, for_mitochorhala_ribosomal_protein_S6_partial_cds AA013726 cathersin_J. AA220024_trophoblast_specific_protein_1 AA721675 extenoxie_T_Normbrocete.		11 91 1		353340	E3	1.1-	1.7	1.4	-1.2 1.3	£5 11	1.1	-13 1.2	-1.2	65%,333	
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63 AA870247 mitogen regulated protein, proliferin 3	it, intestine plut	3.8 3.7 1.5	-16 -23	1.8	23. 14	27 2	7.1-1.7	3 4.6	2.6 -1.7 -1	1.8 -2.6	Section.	- -	-1.6 24395	3332.33	
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360 AA474160 ESTs	stounech
364 AA212102 ESTs	stomach
373 AA624604 Public domain EST	stomach
378 AA413026 Public domain ES1 378 AA105367 region homolog 3 (Drasonhila)	STOMACI)
AA209628 ESTs, Highly similar to 10874 hypothetic	stonach
	stomach
AA529248 Mus_musculus_Similar_to_phosphoprotein_r egulated_by_milogenic_pathways_clone_MGC11752_m 395 RNA, complete cds	Storrach
397 AA265337 deoxyguanosine kinase	stomach
AI644723_ESTs_Weakty_similar_to_JH0494_alpha-1- antichymotrypsin-like_protein_BB224 111 mouse [Mmuscalus]	stonuch
A1551943_ESTs, Weakly similar to JC2378_acetyl-	stomach
416 AI551955 RIKEN cDNA 6330415E02 gene	stomach
428 AA210502 Public domain EST	stomach
437 AIS50200 SEC61, alpha subunit 2 (S. cerevisiae)	stomach
A1549694 ESTS, Highly similar to P300 HUMAN EI A-ASSOCIATED PROTEIN P300 [H-sapiens]	stomach
440 A1552902 RIKEN cDNA 1700049101 gene	stomach
9 AA389264 ESTs	stomach
443 AA638776 matrix metalloprofeinase 12	stomach
445 AA606582 Public domain EST	копасі

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II.

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Description	QI	lds	panc liver	1	stom	Intest colon	brain lung Blad	lung	\Box	Kdny pl-ut		Breast	Remarks
AA242102 villin	MG225.GS.A- G.021AAAQ0F8						بالماد						a specific marker expressed in tumors of the digestive tract, renal proximal tubules, and hepatic bile
A1046562 lactate dehydrogenase 3, C chain, sperm specific	MG225.GS.A- G.0217AAR9E3											7	Expressed in many cancers PMID:
Al326499 MG225.GS.A- epidermal growth MG225.GS.A- factor G.0211AAR3H	MG225.GS.A- G.0211AAR3H3								O			i ir N	23 EGF, fo review PMID: 12422312
AA469630 choline MG225.GS.A- kinase G.0210AAOJF	MG225.GS.A- G.0210AAOJF5				3.1			23	o pi		2	7.	Elevated in breast, lung, colorectal, and prostate tumors, PMID: 2.1 12176020
W14224 N-myc downstream regulated 1	MG225.GS.A- G.0210AAR8B11											7	Overexpressed in skin hyperplasia, PMID: 11746822, p53 resposive 27 gene ?, androgene dependent gene
AA270885 parvalbumin	MG225.GS.A- G.0218AAR4C9										Property Co	2.	Marker of specific 'umors, (like chromophobe renal carcinoma, PMID: 11504835) by expression on specific parental cell types, Neuroendocrine marker (PMID: 1.2 7902679)
AA760002 beta- glucuronidase structural, Beta- glucuronidase precursor	MG225.GS.A- G.021WAAP4G5										- 1.1169 5*	<u> </u>	Elevation in poor differentiation colorectal tumor, PMID: 11777961, in 1.1 pancreatic cancer PMID: 10961372,
W16059 glutathione S- transferase omega 1	MG225.GS.A- G.0217AAR9C6						1			7	7.0	1.0	upregulated in invasive human breast 1.0 cancer lines, PMID: 12091914

Page 1

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W34620 kallikrein 26, Glandular	MG225.GS.A-							Prostate cancer marker, PMID:
kallikrein hK2	G.021BAAPUE10		28	3	=	7	4.1-	-1.4 12142383,
AA466852 cysteine rich	MG225.GS.A-							overexpressed in invasive and metastatic human breast cancer cells
	G.021MAAPBA3		či	30	۰ <u>:</u>	-	1.2	1.2 and tissues, PMID: 12444554
AA445731 heat shock protein cognate 70,	MG225.GS.A-				.,			Negative results, No correlation with p53 expression and gastric cancer PMID: 10705241, Deletions or mutations in sporadic breast
	G.021NAAQ7H3		3.8	-1.0	1.1	-1.2	1.1	1.1 carcinoma, PMID: 10485459
AA002910 FBJ osteosarcoma oncogene, c-fos	MG225.GS.A- G.021NAAR1C4		2.7	9.1	1.0	-1.1	-1.0	-1.0 Upregulated in many cancers
AA289586 protein kinase C, beta	MG225.GS.A- G.0218AAR4C12	72	1.019 2.496+	7:	7.	7.	 	Elevated in colon preneoplastic lesion PMID: 11245437, Decrease in preneoplastic prostate PMID: 9916928, Overexpressed by stromal dendritic cells in basal and squamous 1.1 cell carcinoma.PMID: 9205496
AA119984 liver- specific bHLH- Zip transcription factor	AA119984 liver- specific bHLH- Zip transcription MG225.GS.A- factor G.0218AA0FC12	2.00 Per 1997	7.	2.	1.4	1:1	1.1	Claimed as p53 target gene, PMID: 1.111402317

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 	· · · · · · · · · · · · · · · · · · ·	,	- 1.0 1.0 6+	72	1.1077	- 11.2 -1.1	167	20296+	- Found in neuroblastoma cells PMID: 1.20296+ 10455268
				1.031	- 1.1461 9+	1.0	1.0	-1.0	Amplified in Head and Neck Squamous Cell Cancer PMID: -1.0 11034098
	23	98	1.0	-2.0	-1.3	-1.2	-1.7	1,0	1.0 Growth supressor
		2.6	6 -1.0	-1.8	-1,4	-1.2	-1.8	-1.3	represses E-cadherin in breast -1.3 cancer PMID: 11912130
		25	5	-1.7	-1.5	-1.1	-1.6	1.1	Protooncogene, analog of v-Qin -1.1 PMID: 11039897
		22	2 -2.2	1.2	8	1.3	2.1.2	-1.0	Overexpressed in Warthin tumours and mucoepidermoid carcinomas of the human parotid gland, PMID:
19.5		4.4	19. 4	<u>د.</u> ن	7.0	-1.2	1.3	<u>+-</u>	new marker for pancreatic ductal 1.1 adenocarcinoma, PMID: 11912167

Sheet 1

Page 3

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AA871838 phospholipase A2, group IIA (platelets, synovial fluid)	MG225.GS.A- G.021QAAQLC11		, 20	61	1.9	-1.3	1.5	1.2	1.3		elevated in prostatic intraepithelial neoplasia and adenocarcinoma, PMID: 11839587
				1							
activator 2 (guanylin 2, intestinal, heatstable)	MG225.GS.A- G.0217AAR9B9		2.0	-2.1	-1.5	<u> </u>	- 2:	-1.0	+:	1.4	Expression downregulated in intestine and colorectal 1.4 adenocarcinoma, PMID: 9461126
AA793433 glutamyl aminopeptidase	MG225.GS.A- G.021LAAPGH1		2.5	-1.0	7		7:	1:0	1.2	-1.1	Upregulated in cervical neoplasfa, PMID: 10838501
AA239419 P glycoprotein 2 (mdr)	MG225.GS.A- G.021PAAPWF1		7.5	1.0	1.0	1.0	1.1	-1.0	-1.2	1.3	1.3 Elevated in many cancers
AA265406 nuclear factor I/B	MG225.GS.A- G.0210AAQ2C3		27	1.28917	1.4	1.4	1.2	1.3		1.2	Overexpressed in breast cancer 1.2 PMID: 12208750,
AA683789 sirtuin 1 ((silent mating type information regulation 2, homolog) 1 (S. cerevislae), hSIR2(SIRT1)	MG225.GS.A- G.021KAAPLB10			1.22848	2	. 21	4.1	.	6.	6.	NAD-dependent p53 deacetylase, antagonised p53-PML acticity, PMID:
one	MG225.GS.A- G.021MAAR6F11	7 8	-1.4	7-	1.3	∞	<u>رن</u> تن	1.3	7	-1.2	Amplified and overexpressed in lipogenic breast cancers, PMID: -1.2 9618526

Sheet 1

Table 4

Al425345 hydroxysteroid 17-beta dehydrogenase 9	MG225.GS.A- G.021HAAQ1C2		9.0	1.31173	1.0	1016		- 1.106 1.0531 1.1385 11+ +	0531	1.1385	- 1.0539- 9+	1.13526+	Expression elevated in epithelial .13526+ ovarian tumors PMID: 8729977
AA027607 hydroxysteroid 17-beta dehydrogenase 2	MG225.GS.A- G.021UAAR2A2		7	1.3	1.68774 #	- 1.29025 1.2834 +~		- 1.023 53+	د ن	6.	7.7	1.2	Inversed correlation with breast cancer progression PMID: 11731426 (type II decrease and type I increase Ligh risk)
AA210481 clusterin	MG225.GS.A- G.021TAAOIA1	8	1.2	-2.0	-1.8	4.1-	1.3	7.	7.	4.		1.2	clusterin is a marker of anaplastic large cell lymphoma PMID: 12429802, expressed in human pancreatic cancer PMID: 12370533, 2 breast carcinoma PMID: 10934144
38 9ase iic	1, MG225.GS.A- G.021PAAQQC11	2.3	-1.2	5.8	-16.6	-3.3	1.8	<u>න</u>	1 3 4 4	\frac{\fir}{\fint}}}}}}}}{\frac}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	-1.2	7.	Expression elevated in pancreatic adenocarcinoma and preneoplastic -1.1 lesions PMID: 11002220

Sheet 1

Table 4

	;	,	
Prostate	Fold	Fold	Relation to cancer
AA982842 melanoma-inhibitory-activity			
acid sensitive protein (Cdrap),			dorrelate with the progression of malignant melanoma
(MIA/CD-KAP)	3		alla cilollarosalcalia, i ivilo: i i otorio
AA107101 prostate stem cell			overexpressed in numan prostate cancers, Pivilu:
antigen, PSCA	27		121/242/
AI853055 Cystatin E (cystatin M)		4.7	Expressed in neoplastic epidermisPMID: 12100189
			Expression elevated in nasopharyngeal carcinoma
			cells.PMID: 12203366, Overexpressed in prostate
			cancer
M31885 Inhibitor of DNA binding 1, DNA-			PMID: 11992094, overexpressed in medullary thyroid
binding protein inhibitor ID-1		5.1	6.1 cancer PMID: 1111462
AW122874 PCNA		3.2	3.2 Well known
apolipoprotein D	8	7	Prostate tumor marker 9649289
Secretory leukoprotease inhibitor gene		L 1.00 (1.	7 Ovarian cancer candidate marker 11358798
alutathione peroxidase 3 (plasma)	CX.	2.5	2.5 Ovarian cancer candidate marker 11358798
apolipoprotein E	25	. 25	25 Ovarian cancer candidate marker 11358798
			000000
prostaglandin D2 synthase (21kD, brain)		10	Meningioma marker 11200320
glutamyl aminopeptidase	2.8	100	Elevated in var. cervical tumors 10838501
carbonic anhydrase VI	5.9	5.9	2.6 Target for anti-cancer treatment 11310605
	20,000		

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ļ	Missed		=								- 0		
	Average Signal	34.8		423.375	447 383	518 417	209,333	1713.88	1797.5K	2057.34	3088.17	57.872)	439.42
	Max Signal	70EL	153	2512	6761	## 22	X78	3561	3443	3403	4113	3167	13026
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ріясент (-) (+)	PL. 23B	7	현	-1.5	-1.0		-1.3	2	2	1	2	92	77
7	9.11B E BDE	1.3	- 2	87		7		- T		7			-1,4 -1,1
kidney (-)	103_ 223_ 108_ 228_ 18DE 3DE	1.5		, j	-13		S)	-1.6	-1.6	21- 64-	17-	<u> </u>	
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	snsus	_		NA cr. gi- mam	nce cr: gi- 1974.C1]; 757281.1_brain		nnel,				cr: gi- .12116.C1] <u>colon</u>	in 1 colon	, <u>p</u> 0
	consensus	_		, mRNA cr. gi- mam	equence cr: gi- 02.10974.C.1]; gb_W5728.1.1_ brain		nnel,				RNA cr: gi- 1102.12116.C1] colon	protein 1 7 66] colon	, <u>p</u> 0
	ouse consensus	_		ONE), mRNA cr. gi- mam rr 201102.9749.C11 plan	ial sequence cr. gi- 201102.10974.C.1j 159_gb_W57281.1_ brain		nnel,), mRNA cr: gi- r_201102.12116.C1]colon	ated protein 1 440/// .C1266] დასთ	, <u>p</u> 0
	r mouse consensus	_		(CLDNE), mRNA cr. gi- mam	partial sequence cr. gi- cur_201102.10974.C1]; 1359159_gb_W57281.1_ brain		nnel,				NAI2), mRNA cr. gi- ngleur_201102.12116.C1] colon	ssociated protein 1 7657440/// 22.56.C1266] colon	, <u>p</u> 0
	nan or mouse consensus ure 5)	_		lin 8 (CLDNE), mRNA cr. gi- mam n iongleur 201102.9749.C11 gland	gene, partial sequence cr: gi- iongleur_201102.10974.C1]; j:gi_1359159_gb_W57281.1_ brain		nnel,				2 (SNAI2), mRNA cr. gi- n_iongleur_201102.12116.C1]colon	FA associated protein 1 r: gi-7657440///	, <u>p</u> 0
	; human or mouse consensus n Figure 5)	_		claudin 8 (CLDNE), mRNA cr. gi- mam	LB9 gene, partial sequence cr. gi- use, jongleur, 201102.10974.C1]; mitty);gi_1359159_gb_W57281.1 brain		nnel,				snail 2 (SNAI2), mRNA cr. gi- luman_iongleur_201102.12116.C1]colon	PDGFA associated protein 1 AA cr. gi-7657440// eur 201102-56.C1266] colon	, <u>p</u> 0
	oding human or mouse consensus (as in Figure 5)	_	iers mRNA for puative cytoplasmatic RFI-FL21) as: gi-12.14172// 72lemblA1245876.1H3A245876	iers claudin 8 (CLDN8), mRNA cr. gi- mam /// Human iongleur 201102.9749.Cl11 plan	cuius LB9 gene, partial sequence cr. gi- [Mouse_jongleur_201102.10974.C.]]. in(identity):gi_1359159_gb_W57281.].	iens mRNA; eDNA DKFZp761J109 ne DKFZp761J109) er. gr.21740184/// S9) /gj=AL83443 /gj=21740184 S600 /en=3299	nnel,				wiens snail 2 (SNAI2), mRNA cr: gi- /// [Human_iongleur_201102.12116.C1]colon	iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	, <u>p</u> 0
	sponding human or mouse consensus pice (as in Figure 5)	_	iers mRNA for puative cytoplasmatic RFI-FL21) as: gi-12.14172// 72lemblA1245876.1H3A245876	o sapiens claudin 8 (CLDN8), mRNA cr. gi- mam 4655/// [Human ioneleur 201102.9749,C.1] plan	musculus LB9 gene, partial sequence cr. gi- 56/l/ [Mouse_jongleur_201102.10974.C.l.]; ngleur(identity):gi_1559159_gb_WS7281.1_ Prania	piens mRNA; eDNA DKFZp761J109 ne DKFZp761J109) cr. gr.21740184/// 299/,gb=AL88445/gi=21740184 2600/en=3299 joneleur 201102,12676.C11	nnel,				o sapiens srail 2 (SNAI2), mRNA cr. gi- 7625/// [Human_jongleur_201102.12116.C1]colon	iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	, <u>p</u> 0
	corresponding human or mouse consensus sequence (as in Figure 5)	iens sphingosine-1-phosphate Iyase 1 mRNA	iens mRNA for pulative cytoplasmatic RFI-FL21) as: gi-12214172// 772emblA1245876.1HBA245876	Homo sapiens claudin 8 (CLDNE), mRNA cr. gi- mam 213 4655ii/ [Human iongleur 201102.9749.C1] plans	Mus musculus LB9 gene, partial sequence cr. gi- 687696// [Mouse_iongleur_201102_10974.C.]]. m_iongleur(identiy):gi_1359159_gb_W57281.1 W57281.1	piens mRNA; eDNA DKFZp761J109 ne DKFZp761J109) cr. gr.21740184/// 299/,gb=AL88445/gi=21740184 2600/en=3299 joneleur 201102,12676.C11	viers potassium voltage-garted channel, subfamily, member 2 (KCNQ2), gr.4758627////		ns rhotekin (RTKN), mRNA cr. gi- [Human jongleur 201102.9437.C1]		Homo sapiens snail 2 (SNAI2), mRNA cr. gi- 2497625/// [Human_longleur_201102.12116.C1]colon	iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	gase 122 :ds cr: gi-
	corresponding human or mouse consensus sequence (as in Figure 5)	_	iers mRNA for puative cytoplasmatic RFI-FL21) as: gi-12.14172// 72lemblA1245876.1H3A245876	iers claudin 8 (CLDN8), mRNA er: gi- /// Human iongleur 201102.9749.C11	Mus musculus LB9 gene, partial sequence cr: gi- (687696/// [Mouse_jongleur_201102.10974.C.]]; m_jongleur(identity):gi_1359159_gb_W57281.1_ W57281	piens mRNA; eDNA DKFZp761J109 ne DKFZp761J109) cr. gr.21740184/// 299/,gb=AL88445/gi=21740184 2600/en=3299 joneleur 201102,12676.C11	nnel,	ead box D3 (FOXD3), 2.379.C5]; 057482_gb_Al323053.1		Mus musculus interteukin 3 receptor, alpha chain (113m), mRNA cr. gi-6680/128// [Mouse_jongleu_201102.3747.c1]; m_longleur(identity):gi_4037737_gh_A1323308.1 A1323308	Homo sapiens snail 2 (SNAI2), mRNA er: gi- 24497625// [Human_jongleur_201102.12116.C1]colon	iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	Homo sapiens, glutamate-arimonia ligase (glutamine synthase), clone MGC:20322 IMAGE:4137547, mRNA, complete cds cr: gi- 15080156// [Human_jongleur_201102.10208.C8]
	corresponding human or mouse consensus sequence (as in Figure 5)	_	iers mRNA for puative cytoplasmatic RFI-FL21) as: gi-12.14172// 72lemblA1245876.1H3A245876	Homo sapiens claudin 8 (CLDNS), mRNA cr. gr. mam 21314655/// Human iongleur 201102.9749.C11 plane	Mus musculus LB9 gene, partial sequence cr: gi- (637696/l/ [Mouse_jongleur_201102.10974.C.1]; m_jongleur(identity):gi_1359159_gb_W57281.1_1 W57281	Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp76J1109) cr: gj-21740184/// /cds=(0,429) /gp=AL82445 /gj=21740184 /ug=Hs.12600 /en=3299 [Human jongleur 201102,12676.C1]	nnel,			Mus musculus interteukin 3 receptor, alpha chain (113m), mRNA cr. gi-6680/128// [Mouse_jongleu_201102.3747.c1]; m_longleur(identity):gi_4037737_gh_A1323308.1 A1323308	Homo sapiens snail 2 (SNAI2), mRNA cr. gi- 24497625// [Human_longleur_201102.12116.C1]	iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	Homo sapiens, glutamate-arimonia ligase (glutamine synthase), clone MGC:20322 IMAGE:4137547, mRNA, complete cds cr: gi- 15080156// [Human_jongleur_201102.10208.C8]
	corresponding human or mouse consensus sequence (as in Figure 5)	Homo sapiens sphingosine-1-phosphate Iyase 1 (SGPL I), mRNA	Homo sapiens mRNA for putative cytoplasmatic protein (ORE1-FL21) as: gi-121.04/72// figi123.14/72/embl.A245876.118A2458761	Homo sapiers claudin 8 (CLDN8), mRNA cr. gi-mam 21314655/// [Human iongleur 201102.9749.C.1] plan	Mus musculus LB9 gene, partial sequence cr: gi- (637696/l/ [Mouse_jongleur_201102.10974.C.1]; m_jongleur(identity):gi_1359159_gb_W57281.1_1 W57281	Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp761J109) cr: gj-21740184/// /cds=(0,429) /gp=AL82445 /gj=21740184 /ug=Hs.12600 /en=3299 [Human jongleur 201102,12676,C1]	Homo sapiens potassium voltage-gated chamel, KOT-like subfamily, member 2 (KCN/Q2), mRNA er. gl-47586.Znl/ Himman iongeur 201102.833.C1	orth Homo sapiens forkhead box D3 (FOXD3), mRNA cr: gi-6912371/// [Human_jongieur_201102.379.C5]; h_jongleur(identity):gj_4057482_gb_A1323053.1 A132963		Mus musculus interteukin 3 receptor, alpha chain (113m), mRNA cr. gi-6680/128// [Mouse_jongleu_201102.3747.c1]; m_longleur(identity):gi_4037737_gh_A1323308.1 A1323308	Homo sapiens srail 2 (SNAI2), mRNA cr. gi- 24497625/// [Human_jongleur_20] 102.12116.C1]	iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	Homo sapiens, glutamate-arimonia ligase (glutamine synthase), clone MGC:20322 IMAGE:4137547, mRNA, complete cds cr: gi- 15080156// [Human_jongleur_201102.10208.C8]
	corresponding human or mouse consensus sequence (as in Figure 5)	Homo sapiens sphingosine-1-phosphate Iyase 1 (SGPL I), mRNA	Homo sapiens mRNA for putative cytoplasmatic protein (ORE1-FL21) as: gi-121.04/72// figi123.14/72/embl.A245876.118A2458761	Homo sapiers claudin 8 (CLDNE), mRNA er: gi- mam 2) 314655/// Human ionzleur 201102.9749.C.I. Julan	Mus musculus LB9 gene, partial sequence cr: gi- (637696/l/ [Mouse_jongleur_201102.10974.C.1]; m_jongleur(identity):gi_1359159_gb_W57281.1_1 W57281	Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp761J109) cr: gj-21740184/// /cds=(0,429) /gp=AL82445 /gj=21740184 /ug=Hs.12600 /en=3299 [Human jongleur 201102,12676,C1]	Homo sapiens potassium voltage-gated chamel, KOT-like subfamily, member 2 (KCN/Q2), mRNA er. gl-47586.Znl/ Himman iongeur 201102.833.C1	orth Homo sapiens forkhead box D3 (FOXD3), mRNA cr: gi-6912371/// [Human_jongieur_201102.379.C5]; h_jongleur(identity):gj_4057482_gb_A1323053.1 A132963		Mus musculus interteukin 3 receptor, alpha chain (113m), mRNA cr. gi-6680/128// [Mouse_jongleu_201102.3747.c1]; m_longleur(identity):gi_4037737_gh_A1323308.1 A1323308		iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	Homo sapiens, glutamate-arimonia ligase (glutamine synthase), clone MGC:20322 IMAGE:4137547, mRNA, complete cds cr: gi- 15080156// [Human_jongleur_201102.10208.C8]
	corresponding human or mouse consensus sequence (as in Figure 5)	Homo sapiens sphingosine-1-phosphate Iyase 1 (SGPL I), mRNA	Homo sapiens mRNA for putative cytoplasmatic protein (ORE1-FL21) as: gi-121.04/72// figi123.14/72/embl.A245876.118A2458761	Homo sapiers claudin 8 (CLDNE), mRNA er: gi- mam 2,334655// Human ionsleur 201102.9749.C.I. Jaha	Mus musculus LB9 gene, partial sequence cr: gi- (637696/l/ [Mouse_jongleur_201102.10974.C.1]; m_jongleur(identity):gi_1359159_gb_W57281.1_1 W57281	Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp761J109) cr: gj-21740184/// /cds=(0,429) /gp=AL82445 /gj=21740184 /ug=Hs.12600 /en=3299 [Human jongleur 201102,12676,C1]	Homo sapiens potassium voltage-gated chamel, KOT-like subfamily, member 2 (KCN/Q2), mRNA er. gl-47586.Znl/ Himman iongeur 201102.833.C1	orth Homo sapiens forkhead box D3 (FOXD3), mRNA cr. gi-6912371/// [Human_jongleur_201102.379.C5]; h_jongleur(dentity):gj_4057482_gb_A1323053.1 A1323053	Homo sapiens rhotekin (RTKN), mRNA er: gi- 19526470// [Human jongleur 201102.9437.C1]	Mus musculus interteukin 3 receptor, alpha chain (113m), mRNA cr. gi-6680/128// [Mouse_jongleu_201102.3747.c1]; m_longleur(identity):gi_4037737_gh_A1323308.1 A1323308		iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	Homo sapiens, glutamate-arimonia ligase (glutamine synthase), clone MGC:20322 IMAGE:4137547, mRNA, complete cds cr: gi- 15080156// [Human_jongleur_201102.10208.C8]
		Homo sapiens sphingosine-1-phosphate Iyase 1 (SGPL I), mRNA	Homo sapiens mRNA for putative cytoplasmatic protein (ORE1-FL21) as: gi-121.04/72// figi123.14/72/embl.A245876.118A2458761	Homo sapiens claudin 8 (CLDNR), mRNA er. gi-mam 213146551// Human iongleur 201102.9749.C11 Jalan	Mus musculus LB9 gene, partial sequence cr: gi- (637696/l/ [Mouse_jongleur_201102.10974.C.1]; m_jongleur(identity):gi_1359159_gb_W57281.1_1 W57281	Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp761J109) cr: gj-21740184/// /cds=(0,429) /gp=AL82445 /gj=21740184 /ug=Hs.12600 /en=3299 [Human jongleur 201102,12676,C1]	Homo sapiens potassium voltage-gated chamel, KOT-like subfamily, member 2 (KCN/Q2), mRNA er. gl-47586.Znl/ Himman iongeur 201102.833.C1	orth Homo sapiens forkhead box D3 (FOXD3), mRNA cr. gi-6912371/// [Human_jongleur_201102.379.C5]; h_jongleur(dentity):gj_4057482_gb_A1323053.1 A1323053	Homo sapiens rhotekin (RTKN), mRNA er: gi- 19526470// [Human jongleur 201102.9437.C1]	Mus musculus interteukin 3 receptor, alpha chain (113m), mRNA cr. gi-6680/128// [Mouse_jongleu_201102.3747.c1]; m_longleur(identity):gi_4037737_gh_A1323308.1 A1323308		iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	Homo sapiens, glutamate-arimonia ligase (glutamine synthase), clone MGC:20322 IMAGE:4137547, mRNA, complete cds cr: gi- 15080156// [Human_jongleur_201102.10208.C8]
		Homo sapiens sphingosine-1-phosphate Iyase 1 (SGPL I), mRNA	Homo sapiens mRNA for putative cytoplasmatic protein (ORE1-FL21) as: gi-121.04/72// figi123.14/72/embl.A245876.118A2458761	Homo sapiens claudin 8 (CLDN8), mRNA er: gi- 213 4655/// [Human jongleur 201102.9749.C.]	Mus musculus LB9 gene, partial sequence cr: gi- (87/59/// [Mouse_jongleur_201102.10974.C.1]; m_jongleur(identiv);gi_1359159_gb_W57281.1_ imprinted transcript 1 W57281.	Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp761J109) cr: gj-21740184/// /cds=(0,429) /gp=AL82445 /gj=21740184 /ug=Hs.12600 /en=3299 [Human jongleur 201102,12676,C1]	Homo sapiens potassium voltage-gated chamel, KOT-like subfamily, member 2 (KCN/Q2), mRNA er. gl-47586.Znl/ Himman iongeur 201102.833.C1	orth Homo sapiens forkhead box D3 (FOXD3), mRNA cr. gi-6912371/// [Human_jongleur_201102.379.C5]; h_jongleur(dentity):gj_4057482_gb_A1323053.1 A1323053	Homo sapiens rhotekin (RTKN), mRNA cr. gi- 19526470// [Human. jongleur. 231102.9437.C1]	Mas musculus interferikin 3 receptor, alpha chain (13ra), mRNA or: gi-6680/128/// [[Mosse-jorgleur_201102.3747.C1]; m_longleur[denity];gi_4057737_gb_A1323308.1 in. 3 receptor, alpha_chain A1323308		iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	Homo sapiens, glutamate-arimonia ligase (glutamine synthase), clone MGC:20322 IMAGE:4137547, mRNA, complete cds cr: gi- 15080156// [Human_jongleur_201102.10208.C8]
		Homo sapiens sphingosine-1-phosphate Iyase 1 (SGPL I), mRNA	Homo sapiers mRNA for putative cytoplasmatic provid (ORE-1FL21) as: gi-122 Id/12/// Firil(22) 41/72/mhbAb358761	Homo sapiens claudin 8 (CLDN8), mRNA er: gi- 213 4655/// [Human jongleur 201102.9749.C.]	Mus musculus LB9 gene, partial sequence cr: gi- (87/59/// [Mouse_jongleur_201102.10974.C.1]; m_jongleur(identiv);gi_1359159_gb_W57281.1_ imprinted transcript 1 W57281.	Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp761J109) cr: gj-21740184/// /cds=(0,429) /gp=AL82445 /gj=21740184 /ug=Hs.12600 /en=3299 [Human jongleur 201102,12676,C1]	Homo sapiens potassium voltage-gated chamel, KOT-like subfamily, member 2 (KCN/Q2), mRNA er. gl-47586.Znl/ Himman iongeur 201102.833.C1	orth Homo sapiens forkhead box D3 (FOXD3), mRNA cr. gi-6912371/// [Human_jongleur_201102.379.C5]; h_jongleur(dentity):gj_4057482_gb_A1323053.1 A1323053	Homo sapiens rhotekin (RTKN), mRNA cr. gi- 19526470// [Human. jongleur. 231102.9437.C1]	Mas musculus interferikin 3 receptor, alpha chain (13ra), mRNA or: gi-6680/128/// [[Mosse-jorgleur_201102.3747.C1]; m_longleur[denity];gi_4057737_gb_A1323308.1 in. 3 receptor, alpha_chain A1323308		iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	Homo sapiens, glutamate-arimonia ligase (glutamine synthase), clone MGC:20322 IMAGE:4137547, mRNA, complete cds cr: gi- 15080156// [Human_jongleur_201102.10208.C8]
		Homo sapiens sphingosine-1-phosphate Iyase 1 (SGPL I), mRNA	Homo sapiers mRNA for putative cytoplasmatic provid (ORE-1FL21) as: gi-122 Id/12/// Firil(22) 41/72/mhbAb358761	Homo sapiens claudin 8 (CLDN8), mRNA er: gi- 213 4655/// [Human jongleur 201102.9749.C.]	Mus musculus LB9 gene, partial sequence cr: gi- (87/59/// [Mouse_jongleur_201102.10974.C.1]; m_jongleur(identiv);gi_1359159_gb_W57281.1_ imprinted transcript 1 W57281.	Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp761J109) cr: gj-21740184/// /cds=(0,429) /gp=AL82445 /gj=21740184 /ug=Hs.12600 /en=3299 [Human jongleur 201102,12676,C1]	Homo sapiens potassium voltage-gated chamel, KOT-like subfamily, member 2 (KCN/Q2), mRNA er. gl-47586.Znl/ Himman iongeur 201102.833.C1	orth Homo sapiens forkhead box D3 (FOXD3), mRNA cr. gi-6912371/// [Human_jongleur_201102.379.C5]; h_jongleur(dentity):gj_4057482_gb_A1323053.1 A1323053	Homo sapiens rhotekin (RTKN), mRNA cr. gi- 19526470// [Human. jongleur. 231102.9437.C1]	Mas musculus interferikin 3 receptor, alpha chain (13ra), mRNA or: gi-6680/128/// [[Mosse-jorgleur_201102.3747.C1]; m_longleur[denity];gi_4057737_gb_A1323308.1 in. 3 receptor, alpha_chain A1323308		iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	Homo sapiens, glutamate-arimonia ligase (glutamine synthase), clone MGC:20322 IMAGE:4137547, mRNA, complete cds cr: gi- 15080156// [Human_jongleur_201102.10208.C8]
		Homo sapiens sphingosine-1-phosphate Iyase 1 (SGPL I), mRNA	Homo sapiers mRNA for putative cytoplasmatic provid (ORE-1FL21) as: gi-122 Id/12/// Firil(22) 41/72/mhbAb358761	Homo sapiens claudin 8 (CLDN8), mRNA er: gi- 213 4655/// [Human jongleur 201102.9749.C.]	Mus musculus LB9 gene, partial sequence cr: gi- (87/59/// [Mouse_jongleur_201102.10974.C.1]; m_jongleur(identiv);gi_1359159_gb_W57281.1_ imprinted transcript 1 W57281.	Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp761J109) cr: gj-21740184/// /cds=(0,429) /gp=AL82445 /gj=21740184 /ug=Hs.12600 /en=3299 [Human jongleur 201102,12676,C1]	Homo sapiens potassium voltage-gated chamel, KOT-like subfamily, member 2 (KCN/Q2), mRNA er. gl-47586.Znl/ Himman iongeur 201102.833.C1	orth Homo sapiens forkhead box D3 (FOXD3), mRNA cr. gi-6912371/// [Human_jongleur_201102.379.C5]; h_jongleur(dentity):gj_4057482_gb_A1323053.1 A1323053	Homo sapiens rhotekin (RTKN), mRNA cr. gi- 19526470// [Human. jongleur. 231102.9437.C1]	Mas musculus interferikin 3 receptor, alpha chain (13ra), mRNA or: gi-6680/128/// [[Mosse-jorgleur_201102.3747.C1]; m_longleur[denity];gi_4057737_gb_A1323308.1 in. 3 receptor, alpha_chain A1323308		iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	Homo sapiens, glutamate-arimonia ligase (glutamine synthase), clone MGC:20322 IMAGE:4137547, mRNA, complete cds cr: gi- 15080156// [Human_jongleur_201102.10208.C8]
	corresponding human or mouse consensus sequence (as in Figure 5)	Homo sapiens sphingosine-1-phosphate Iyase 1 (SGPL I), mRNA	Homo sapiens mRNA for putative cytoplasmatic protein (ORE1-FL21) as: gi-121.04/72// figi123.14/72/embl.A245876.118A2458761	Homo sapiers claudin 8 (CLDNE), mRNA er: g- 21314655/// [Human iongleur 201102.9749.C.1]	Mus musculus LB9 gene, partial sequence cr: gi- (87/59/// [Mouse_jongleur_201102.10974.C.1]; m_jongleur(identiv);gi_1359159_gb_W57281.1_ imprinted transcript 1 W57281.	Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp761J109) cr: gj-21740184/// /cds=(0,429) /gp=AL82445 /gj=21740184 /ug=Hs.12600 /en=3299 [Human jongleur 201102,12676,C1]	Homo sapiera potassium voltage-gated chamel, KQT-itie subfamily, member 2 (KCN\(\mathcal{Q}\)2), mRNA cr g.4.738627111 Human Jongleur 201102.8633.C1]	orth Homo sapiens forkhead box D3 (FOXD3), mRNA cr: gi-6912371/// [Human_jongieur_201102.379.C5]; h_jongleur(identity):gj_4057482_gb_A1323053.1 A132963	Homo sapiens rhotekin (RTKN), mRNA or: gi- AA034678 rhotekin 19526470// [Human jongleur 201102.9437.C1]	Mas musculus interfeukin 3 receptor, alpha chain (13ra), mRNA or: gi-6890/28/// [Mosse-jongleur_201102.3747.C1]; m.longleur(identity):gi_4057737_gb_A1323308.1 A1323308 interfeukin 3 receptor, alpha_chain A1323308	AA518917 sług, chićken homolog	Homo sapiers PDGFA associated protein 1 zela_polypept (PDAP1), mKNA cr. gi-7657440// [Human_jongleur_201102.56.C1266]	, <u>p</u> 0
		Homo sapiens sphingosine-1-phosphate Jyase 1 AA5 (6922 sphingosine nhosphate Jyase 1 (SGPL I), mRNA	Homo capiens mRNA for putative cytoplasmatic protein (ORE-FL21) as: gi-1214172/// [fil] 1214172/enbl.A155(115A24536)	Homo sapiens claudin 8 (CLDNR), mRNA er: gi- AA080175 clandin 8 213.4655/// [Human jongleur 201102.9749.C.]	Mus musculus LB9 gene, partial sequence cr. gi- (87706/6// [Mouse_jongleur_201102_10974.C.]] m_jongleur(identity):gi_1559159_gb_W57281.1 W57281 Mest-linked imprinted transcript 1 W57281.	Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp761J109) cr: gj-21740184/// cots=60.439) (gp=6.219541/gj=21740184 //ug=1b.12600 /len=3299 //ug=1b.12600 /len=3299 //ug=1b.12600 /len=2299 //ug=1b.12600 //	Homo sapiens potassium voltage-gated channel, KQT-lite subfamily, member 2 (KCN\C2), AA651041 potassium voltage-member 2	orth Homo sapiens forkhead box D3 (FOXD3), mRNA cr: gi-6912371/// [Human_jongleur_201102.379.C5]; h_jongleur(identity):gi_4057482_gb_A1323053.1 A1323053 forkhead box D3	Homo sapiens rhotekin (RTKN), mRNA or: gi- 19526470/ll (Human, jorgleur. 201102.9437.C1)	Mas musculus interfeukin 3 receptor, alpha chain (13ra), mRNA or: gi-6890/28/// [Mosse-jongleur_201102.3747.C1]; m.longleur(identity):gi_4057737_gb_A1323308.1 A1323308 interfeukin 3 receptor, alpha_chain A1323308		iens PDGFA associated protein 1 mRNA cr: gi-7657449// ongleur_201102.56.C1266]	Homo sapiens, glutamate-arimonia ligase (glutamine synthase), clone MGC:20322 IMAGE:4137547, mRNA, complete cds cr: gi- 15080156// [Human_jongleur_201102.10208.C8]
	mouse EST description	Homo sapiens sphingosine-1-phosphate Jyase 1 AA5 (6922 sphingosine nhosphate Jyase 1 (SGPL I), mRNA	Homo sapiers mRNA for pulative cytoplasmatic protein (ORF1-FL21) as: gi-121 da172// a41520-10 FSTs	Homo sapiens claudin 8 (CLDNR), mRNA cr. gi- 223 AA080175 claudin 8 (CLDNR), mRNA cr. gi- 21314655/l/ Human ionzeur 201102.9749.C.11	Mus musculus LB9 gene, partial sequence cr. gi- (887066//) [Mouse_jongleur_201102_10974.C.]] m_jongleur[identity];gi_1359159_gb_W57281.1 W57281 Mest-linked importated transaction 1	Homo sapiens mRNA; cDNA DKEZp7611109 (from clone DKEZp761109) cr: gi-21740184/// /cds-6429, /gb=AL834445/gi=21740184 /ug=18.1260Acm form=3299 /AA967857 brain protein	Homo supters potassium voltage-gated chamel, KQT-iike subfamily, member 2 (KCNQ2), AA651041 potassium_voltage- MANA err gt-4758671111 104 gated chamel, subfamily O, member 2 [Human longieur 201102.8633.C1]	orth Homo sapiens forkhead box D3 (FOXD3), mRNA cr: gi-69123711// [Human_longleur_201102.379.C5]; h_jongleur(dentity):gi_4057482_gb_A1323053.1 A1323053 forkhead box D3 A1323053	Homo sapiens rhotekin (RTKN), mRNA or: gi- 19526470/l/ [Human. jongleur. 201102.9437.C1]	Mus musculus interfeukin 3 receptor, alpha chain (113ra), mRNA er: gi-6680/28/// [Monsa-jongleur_201102.3747.C1]; m.longleur[denity):gi_4057737_gb_A1323308.118 A1323308 interfeukin 3 receptor, alpha_chain A1323308	AA518917 sług, chićken homolog	AA546945_tyrosinc_3- moncoxygenase_tryptophan_5- moncoxygenase_acitvation_protein_zela_polypspt_(PDAP!), mRNA cr; gi-7657440/// ide [Human_jongleur_201102.56.C1266]	Homo sapiens, glutamate-ammonia ligase (glutamine synthase), clone MGC:2032 IMAGE:4137547, mRNA, complete eds cr: gi-15080156/// IMAGE:413

TABLE 5 Page .

1		1	Homo sapiens glutamic-oxaloacetic transaminase			_		<u> </u>				<u> </u>						<u> </u>			-				
	235	AA415254_gfutamate_oxaloacetate_transaminase_1. soluble	1, soluble (aspartate aminotransferase 1) (GOT1), mRNA cr. gi-4504066/// [Human jongleur 201102.747.C1]	liver	brain	-12 -13	1	-2.5 1.4	1.4	5	\$.	÷ +	2,1	3.8		12	ង	1.6		, 6	17	33	857.875	. s	
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1	ନ	0 P P P P P P P P P P P P P P P P P P P	orth Homo sapiens cyclic AMP-regulated phosphoprotein mRNA, complete cds si: gi- 6663225/ii/ [Human_Jongleur_201102.cl.5922.singlet]; h_jongleur(identity);gi_4318633_gb_Al464603.1 s	stomach; brain b	braín	12	15	1,1	_	-12	113	= =	<u>.</u>	* * * * * * * * * * * * * * * * * * *			7	- - 	= =	ż	<u> </u>	1380	344.458		
ec.			Homo sapiens necdin homolog (mouse) (NDN), mRNA cr. gi-10800414/// s [Human jongleur 201102.11956.C1]	stomach; b	brain	2.2 -1.3	21 23:	1.4	7	£	บ	-1.1	ű	1.0		1946 4 4	7	3.5 .2	7	4	1.3	9121	12.0702		- 1
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21	357	AA517337_WASP_family_1	Homo sapiens WAS protein family, member 1 (WASF1), mRNA cr. gj.4507912/// [Human_jongleur_201102.1128.Cl]	stomach	brain -	-1.3	=	1.6 -1	i i	113	4		÷.	7 7		2	7	1. 1.	2		9	66	585.835	2	
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uten 3E:17	авта, / :1]	Homo sapiens selenium binding protein I (SELENBFI), mRNA cr. gj-16306549///	Homesnage_acorror. Hone sapiens acetyl-Coenzyme A acyltan 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase) (ACAA2), muclear gene encoding mitochondrial protein, mRVA er: gi-51744 Fluman iomiclur 20 1102, 11645, C11	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	alpha CATU	Home sapiens cytochrome P450, subfamil (phenobartital-inducible), polypeptide 13 (CYP2A13), mRN er: gi-19745563// [Human iongleur 201102,4706.21]	Homo sapiens cytochrome P450, subfamil (phenobarbital-inducible), polypeptide 13 (CYP2A13), mRN orr gi-19743563/// Himman inpulent 701107 4706 (11	Moderately similar to HEMI_HUMAN 5- Moderately similar to HEMI_HUMAN 5- amindevaluia caid synthase, nonspecific, mitochondrial precursor (Delta-armindleva spintase) (D or Epi-58308 19/l/w well h08.x1) sapicus cDNA 3° end kdone—IMAGE:250 kdone_end=3° lgb=A W003903 /gi=58508 kdg=Hs.407036 /dis=478.x1	21.	Homo sapiens hydroxysteroid (11-beta) dehydrogenase 1 (HSD11B1), mRNA cr 5031764/// [Human jongleur 201102.8
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bladder	l bladder; manmary gland	Mus musculus demilune cell and parolid protein (Dcpp), mRNA cr. gr.9910187/// [Mouse_Jongleur 201102.3917.C1]; m_Jongleur(identity);gj_318214_gb_W36921.1 [W3692]	bladder	onic anhydrase VI gene, exon 201102.cl.310.singlet  bladder	brain	brain	From sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA er; gi-6005883/// [Human_Jongleur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds cr: gi-603950/// /cds-(29,6145) /gb-D13948 /gi-603950 /ug-Hs. /6989 /len=6628 [Human_jongleur_201102.686.C1]	Fromo supiers, Similar to KIAA1001 protein, clone MGC:8996 MAGE:882163, mRNA, complete cds as: gi-15214501, mRNA [gi]15214501iebBc0123751 brain	. Forno sapiens KIAA0102 gene product (KIAA0102), mRNA cr. gi-7661907/// [Human_jongleur_201102.6112.C.]	orth Homo sepiens mesoderm specific transcript homolog (mouse) (MEST), mRNA; hum_rs_dna(identity); gi_4319104_gb_A1465074.
bladder	l bladder; manmary gland	Mus musculus demilune cell and parolid protein (Dcpp), mRNA cr. gr.9910187/// [Mouse_Jongleur 201102.3917.C1]; m_Jongleur(identity);gj_318214_gb_W36921.1 [W3692]	bladder	onic anhydrase VI gene, exon 201102.cl.310.singlet  bladder	brain	brain	Homo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gi-6005883/// gene [Human Jongleur 201102.6056.C1] brain	Homo sapiens mRNA for KIAA0097 protein, partial cds cr: gi-603950/// /cds-(29,6145) /gb-D13948 /gi-603950 /ug-Hs. /6989 /len=6628 [Human_jongleur_201102.686.C1]	Fromo sapiens, Similar to KIAA1001 protein, clone MGC-8996 INA/GE-3882163, mRNA, complete cas as: gr-15214501/H, gene [ri]15214501/hGBC0123751 lb00123751	Forno sapiens KIAA0102 gene product   (KIAA0102), mRNA cr. gr-7561907/// gene   [Human_jongleur 201102.6112.C1]   brain	orth Homo septiens mesoderm specific transcript homolog (mouse) (MEST), mRNA; hum. rs. dna(identity); gj. 4319104_gb_A1465074.
Homo sapiens angiomotin like 2 (AMOTL2), mRNA cr. gi-7705577/// [Human_jongleur_201102.4649.C2] bladder	Homo sapiers selenoprotein P, plasma, 1 (SEPP1), mRNA or. gr-4885590// [Human_jongleur_201102.1857.C.i] mammary	Mus musculus demilune cell and parolid protein (Dcpp), mRNA cr. gr.9910187/// [Mouse_Jongleur 201102.3917.C1]; m_Jongleur(identity);gj_318214_gb_W36921.1 [W3692]	bladder	onic anhydrase VI gene, exon 201102.cl.310.singlet  bladder	brain	brain	Homo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gi-6005883/// gene [Human Jongleur 201102.6056.C1] brain	Homo sapiens mRNA for KIAA0097 protein, partial cds cr: gi-603950/// /cds-(29,6145) /gb-D13948 /gi-603950 /ug-Hs. /6989 /len=6628 [Human_jongleur_201102.686.C1]	Fromo sapiens, Similar to KIAA1001 protein, clone MGC-8996 INA/GE-3882163, mRNA, complete cas as: gr-15214501/H, gene [ri]15214501/hGBC0123751 lb00123751	Forno sapiens KIAA0102 gene product   (KIAA0102), mRNA cr. gr-7561907/// gene   [Human_jongleur 201102.6112.C1]   brain	orth Homo septiens mesoderm specific transcript homolog (mouse) (MEST), mRNA; hum. rs. dna(identity); gj. 4319104. gb. A1465074.
Homo sapiens angiomotin like 2 (AMOTL2), mRNA cr. gi-7705577/// [Human_jongleur_201102.4649.C2] bladder	Homo sapiers selenoprotein P, plasma, 1 (SEPP1), mRNA or. gr-4885590// [Human_jongleur_201102.1857.C.i] mammary	Mus musculus demilune cell and parolid protein (Dcpp), mRNA cr. gr.9910187/// [Mouse_Jongleur 201102.3917.C1]; m_Jongleur(identity);gj_318214_gb_W36921.1 [W3692]	bladder	Homo sapiens carbonic anhydrass VI gene, exon 6 si: gi-6623972/// [Human jonglenr 2011/02.cl.310.singlet] bladder	mz/9ft/9.r1 Mus musculus cDNA, 5' end as: gi- 190410/// /clone=lMAGE:721577 /clone_end=5' /gi=AAA5/677 /gi=1904410 /ug=Mm.24323 //en=136 [gni UCl/Mm#S161770]; m_jongleur(identity);gi_1904410_gb_AA267673.	Forno sapiers asparaginase-like   protein (ALP), m RNA cr. gl-23308566// [Human jonderr 201102,942,C2]	Fromo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gr-6005883/// [Human_jongteur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds cr: gi-603950/// /cds-(29,6145) /gb-D13948 /gi-603950 /ug-Hs. /6989 /len=6628 [Human_jongleur_201102.686.C1]	Fromo sapiens, Similar to KIAA1001 protein, clone MGC-8996 INA/GE-3882163, mRNA, complete cas as: gr-15214501/H, gene [ri]15214501/hGBC0123751 lb00123751	Forno sapiens KIAA0102 gene product   (KIAA0102), mRNA cr. gr-7561907/// gene   [Human_jongleur 201102.6112.C1]   brain	orth Homo septiens mesoderm specific transcript homolog (mouse) (MEST), mRNA; hum. rs. dna(identity); gj. 4319104. gb. A1465074.
Homo sapiens angiomotin like 2 (AMOTL2), mRNA cr. gi-7705577/// [Human_jongleur_201102.4649.C2] bladder	Homo sapiers selenoprotein P, plasma, 1 (SEPP1), mRNA or. gr-4885590// [Human_jongleur_201102.1857.C.i] mammary	Mus musculus demilune cell and parolid protein (Dcpp), mRNA cr. gr.9910187/// [Mouse_Jongleur 201102.3917.C1]; m_Jongleur(identity);gj_318214_gb_W36921.1 [W3692]	bladder	Homo sapiens carbonic anhydrass VI gene, exon 6 si: gi-6623972/// [Human jonglenr 2011/02.cl.310.singlet] bladder	mz/9ft/9.r1 Mus musculus cDNA, 5' end as: gi- 190410/// /clone=lMAGE:721577 /clone_end=5' /gi=AAA5/677 /gi=1904410 /ug=Mm.24323 //en=136 [gni UCl/Mm#S161770]; m_jongleur(identity);gi_1904410_gb_AA267673.	Forno sapiers asparaginase-like   protein (ALP), m RNA cr. gl-23308566// [Human jonderr 201102,942,C2]	Fromo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gr-6005883/// [Human_jongteur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds cr: gi-603950/// /cds-(29,6145) /gb-D13948 /gi-603950 /ug-Hs. /6989 /len=6628 [Human_jongleur_201102.686.C1]	Fromo sapiens, Similar to KIAA1001 protein, clone MGC-8996 INA/GE-3882163, mRNA, complete cas as: gr-15214501/H, gene [ri]15214501/hGBC0123751 lb00123751	Forno sapiens KIAA0102 gene product   (KIAA0102), mRNA cr. gr-7561907/// gene   [Human_jongleur 201102.6112.C1]   brain	orth Homo septiens mesoderm specific transcript homolog (mouse) (MEST), mRNA; hum. rs. dna(identity); gj. 4319104. gb. A1465074.
Homo sapiens angiomotin like 2 (AMOTL2), mRNA cr. gi-7705577/// [Human_jongleur_201102.4649.C2] bladder	Homo sapiers selenoprotein P, plasma, 1 (SEPP1), mRNA or. gr-4885590// [Human_jongleur_201102.1857.C.i] mammary	Mus musculus demilune cell and parolid protein (Dcpp), mRNA cr. gr.9910187/// [Mouse_Jongleur 201102.3917.C1]; m_Jongleur(identity);gj_318214_gb_W36921.1 [W3692]	bladder	Homo sapiens carbonic anhydrass VI gene, exon 6 si: gi-6623972/// [Human jonglenr 2011/02.cl.310.singlet] bladder	mz/9ft/9.r1 Mus musculus cDNA, 5' end as: gi- 190410/// /clone=lMAGE:721577 /clone_end=5' /gi=AAA5/677 /gi=1904410 /ug=Mm.24323 //en=136 [gni UCl/Mm#S161770]; m_jongleur(identity);gi_1904410_gb_AA267673.	Forno sapiers asparaginase-like   protein (ALP), m RNA cr. gl-23308566// [Human jonderr 201102,942,C2]	Fromo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gr-6005883/// [Human_jongteur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds cr. gi-603950/// /cds-(29,6145) //girD43948 /gi=603950 /ug=Hs.76989 /len=6628 similar_to_S68176_TO [[Human_jongleur_201102.686.C1]	Ecomo sapieras, Similar to KIAA1001 protein, clora MGC:8996 MAGE:3882 163, mRNA, complete ceta sa: gr.152 1450 II/m 6330406P08 gene [E] [521450   EplBC012375, IBC012375] brain	Forno sapiens KIAA0102 gene product (KIAA0102), mRNA cr: gi-7661907/// 5730405115 gene [Human Jongleur 201102.6112.C1] brain	orth Homo sepiens mesoderm specific transcript homolog (unouse) (MEST), mRNA: hunn ze dan sidentity);gi_4319104_gb_A1465074. 1 A14650774
Homo sapiens angiomotin like 2 (AMOTL2), mRNA cr. gi-7705577/// [Human_jongleur_201102.4649.C2] bladder	Homo sapiens selenoprotein P, plasma, 1 (SEPP1), mRNA cr. gi.4885590// [Human_jongleur_201102.1857.C1] nummary growth factor	Mus musculus demilune cell and parolid protein (Dcpp), mRNA cr. gr.9910187/// [Mouse_Jongleur 201102.3917.C1]; m_Jongleur(identity);gj_318214_gb_W36921.1 [W3692]	bladder	Homo sapiens carbonic anhydrass VI gene, exon 6 si: gi-6623972/// [Human jonglenr 2011/02.cl.310.singlet] bladder	mz/9ft/9.r1 Mus musculus cDNA, 5' end as: gi- 190410/// /clone=lMAGE:721577 /clone_end=5' /gi=AAA5/677 /gi=1904410 /ug=Mm.24323 //en=136 [gni UCl/Mm#S161770]; m_jongleur(identity);gi_1904410_gb_AA267673.	Forno sapiers asparaginase-like   protein (ALP), m RNA cr. gl-23308566// [Human jonderr 201102,942,C2]	Fromo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gr-6005883/// [Human_jongteur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds cr. gi-603950/// /cds-(29,6145) //girD43948 /gi=603950 /ug=Hs.76989 /len=6628 similar_to_S68176_TO [[Human_jongleur_201102.686.C1]	Ecomo sapieras, Similar to KIAA1001 protein, clora MGC:8996 MAGE:3882 163, mRNA, complete ceta sa: gr.152 1450 II/m 6330406P08 gene [E] [521450   EplBC012375, IBC012375] brain	Forno sapiens KIAA0102 gene product (KIAA0102), mRNA cr: gi-7661907/// 5730405115 gene [Human Jongleur 201102.6112.C1] brain	orth Homo septiens mesoderm specific transcript homolog (mouse) (MEST), mRNA; hum. rs. dna(identity); gj. 4319104. gb. A1465074.
Homo sapiens angiomotin like 2 (AMOTL2), mRNA cr. gi-7705577/// [Human_jongleur_201102.4649.C2] bladder	Homo sapiens selenoprotein P, plasma, 1 (SEPP1), mRNA cr. gi.4885590// [Human_jongleur_201102.1857.C1] nummary growth factor	Mus musculus demilune cell and parolid protein (Dcpp), mRNA cr. gr.9910187/// [Mouse_Jongleur 201102.3917.C1]; m_Jongleur(identity);gj_318214_gb_W36921.1 [W3692]	bladder	Homo sapiens carbonic anhydrass VI gene, exon 6 si: gi-6623972/// [Human jonglenr 2011/02.cl.310.singlet] bladder	mz/9ft/9.rl Mus musculus cDNA, 5' end as: gi- 190410/// /clone=lMAGE:721577 /clone_end=5' /gi=AAZ67673 /gi=1904410 /ug=Mm.24323 //en=136 [gni UC]/Mm#S161770]; m_jongleur(identity);gi_1904410_gb_AA267673.	Forno sapiers asparaginase-like   protein (ALP), m RNA cr. gl-23308566// [Human jonderr 201102,942,C2]	Fromo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gr-6005883/// [Human_jongteur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds cr. gi-603950/// /cds-(29,6145) //girD43948 /gi=603950 /ug=Hs.76989 /len=6628 similar_to_S68176_TO [[Human_jongleur_201102.686.C1]	Ecomo sapieras, Similar to KIAA1001 protein, clora MGC:8996 MAGE:3882 163, mRNA, complete ceta sa: gr.152 1450 II/m 6330406P08 gene [E] [521450   EplBC012375, IBC012375] brain	Forno sapiens KIAA0102 gene product (KIAA0102), mRNA cr: gi-7661907/// 5730405115 gene [Human Jongleur 201102.6112.C1] brain	orth Homo septiens mesoderm specific transcript homolog (mouse) (MEST), mRNA; hum. rs. dna(identity); gj. 4319104. gb. A1465074.
Homo sapiens angiomotin like 2 (AMOTL2), mRNA cr. gi-7705577/// [Human_jongleur_201102.4649.C2] bladder	Homo sapiens selenoprotein P, plasma, 1 (SEPP1), mRNA cr. gi.4885590// [Human_jongleur_201102.1857.C1] nummary growth factor	Mus musculus demilune cell and parolid protein (Dcpp), mRNA cr. gr.9910187/// [Mouse_Jongleur 201102.3917.C1]; m_Jongleur(identity);gj_318214_gb_W36921.1 [W3692]	bladder	Homo sapiens carbonic anhydrass VI gene, exon 6 si: gi-6623972/// [Human jonglenr 2011/02.cl.310.singlet] bladder	mz/9ft/9.rl Mus musculus cDNA, 5' end as: gi- 190410/// /clone=lMAGE:721577 /clone_end=5' /gi=AAZ67673 /gi=1904410 /ug=Mm.24323 //en=136 [gni UC]/Mm#S161770]; m_jongleur(identity);gi_1904410_gb_AA267673.	Forno sapiers asparaginase-like   protein (ALP), m RNA cr. gl-23308566// [Human jonderr 201102,942,C2]	Fromo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gr-6005883/// [Human_jongteur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds cr. gi-603950/// /cds-(29,6145) //girD43948 /gi=603950 /ug=Hs.76989 /len=6628 similar_to_S68176_TO [[Human_jongleur_201102.686.C1]	Ecomo sapieras, Similar to KIAA1001 protein, clora MGC:8996 MAGE:3882 163, mRNA, complete ceta sa: gr.152 1450 II/m 6330406P08 gene [E] [521450   EplBC012375, IBC012375] brain	Forno sapiens KIAA0102 gene product (KIAA0102), mRNA cr: gi-7661907/// 5730405115 gene [Human Jongleur 201102.6112.C1] brain	orth Homo sepiens mesoderm specific transcript homolog (unouse) (MEST), mRNA: hunn ze dan sidentity);gi_4319104_gb_A1465074. 1 A14650774
Homo sapiens angiomotin like 2 (AMOTL2), mRNA cr. gi-7705577/// [Human_jongleur_201102.4649.C2] bladder	Homo sapiens selenoprotein P. plasma, 1 (SEPP1), mRNA or gr4885590// [Htman_jongleur_201102.1857.C1] nonminary cpidernal growth factor	Mus musculus demilune cell and parolid protein (Dcpp), mRNA cr. gr.9910187/// [Mouse_Jongleur 201102.3917.C1]; m_Jongleur(identity);gj_318214_gb_W36921.1 [W3692]	bladder	Homo sapiens carbonic anhydrass VI gene, exon 6 si: gi-6623972/// [Human jonglenr 2011/02.cl.310.singlet] bladder	mz/9ft/9.rl Mus musculus cDNA, 5' end as: gi- 190410/// /clone=lMAGE:721577 /clone_end=5' /gi=AAZ67673 /gi=1904410 /ug=Mm.24323 //en=136 [gni UC]/Mm#S161770]; m_jongleur(identity);gi_1904410_gb_AA267673.	Forno sapiers asparaginase-like   protein (ALP), m RNA cr. gl-23308566// [Human jonderr 201102,942,C2]	Fromo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gr-6005883/// [Human_jongteur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds cr. gi-603950/// /cds-(29,6145) //girD43948 /gi=603950 /ug=Hs.76989 /len=6628 similar_to_S68176_TO [[Human_jongleur_201102.686.C1]	Ecomo sapieras, Similar to KIAA1001 protein, clora MGC:8996 MAGE:3882 163, mRNA, complete ceta sa: gr.152 1450 II/m 6330406P08 gene [E] [521450   EplBC012375, IBC012375] brain	Forno sapiens KIAA0102 gene product (KIAA0102), mRNA cr: gi-7661907/// 5730405115 gene [Human Jongleur 201102.6112.C1] brain	orth Homo sepiens mesoderm specific transcript homolog (unouse) (MEST), mRNA: hunn ze dan sidentity);gi_4319104_gb_A1465074. 1 A14650774
Homo sapiens angiomotin like 2 (AMOTL2), mRNA cr. gi-7705577/// [Human_jongleur_201102.4649.C2] bladder	Homo sapiens selenoprotein P. plasma, 1 (SEPP1), mRNA or gr4885590// [Htman_jongleur_201102.1857.C1] nonminary cpidernal growth factor	Mus musculus demilune cell and parotid protein (Dcpp), mRNA or: gi-9910187// [Mouse_Jongleur_201102.3917.C1]; m_Jongleur(identry);gi_1318214_gb_W36921.1 demilune cell and parotid protein [W33992]	Mus musculus submaxillary gland androgen regulated protein 1 (Smr1), mRNA or: gi-14389424/fl [Mouse, jongleur, 201102,2306,C2]; 9. submaxillary, gland, androgen, regulate in jongleur (identity); gi_2803947_gb_AA73679.	Homo sapiens carbonic anhydrass VI gene, exon 6 si: gi-6623972/// [Human jonglenr 2011/02.cl.310.singlet] bladder	mz/9ft/9.rl Mus musculus cDNA, 5' end as: gi- 190410/// /clone=lMAGE:721577 /clone_end=5' /gi=AAZ67673 /gi=1904410 /ug=Mm.24323 //en=136 [gni UC]/Mm#S161770]; m_jongleur(identity);gi_1904410_gb_AA267673.	Forno sapiers asparaginase-like   protein (ALP), m RNA cr. gl-23308566// [Human jonderr 201102,942,C2]	Fromo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gr-6005883/// [Human_jongteur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds cr. gi-603950/// /cds-(29,6145) //girD43948 /gi=603950 /ug=Hs.76989 /len=6628 similar_to_S68176_TO [[Human_jongleur_201102.686.C1]	Ecomo sapieras, Similar to KIAA1001 protein, clora MGC:8996 MAGE:3882 163, mRNA, complete ceta sa: gr.152 1450 II/m 6330406P08 gene [E] [521450   EplBC012375, IBC012375] brain	Forno sapiens KIAA0102 gene product (KIAA0102), mRNA cr: gi-7661907/// 5730405115 gene [Human Jongleur 201102.6112.C1] brain	orth Homo sepiens mesoderm specific transcript homolog (unouse) (MEST), mRNA: hunn ze dan sidentity);gi_4319104_gb_A1465074. 1 A14650774
Homo sapiens angiomotin like 2 (AMOTL2), mRNA cr. gi-7705577/// [Human_jongleur_201102.4649.C2] bladder	Homo sapiens selenoprotein P. plasma, 1 (SEPP1), mRNA or gr4885590// [Htman_jongleur_201102.1857.C1] nonminary cpidernal growth factor	Mus musculus demilune cell and parotid protein (Dcpp), mRNA or: gi-9910187// [Mouse_Jongleur_201102.3917.C1]; m_Jongleur(identry);gi_1318214_gb_W36921.1 demilune cell and parotid protein [W33992]	Mus musculus submaxillary gland androgen regulated protein 1 (Smr1), mRNA or: gi-14389424/fl [Mouse, jongleur, 201102,2306,C2]; 9. submaxillary, gland, androgen, regulate in jongleur (identity); gi_2803947_gb_AA73679.	Homo sapiens carbonic anhydrass VI gene, exon 6 si: gi-6623972/// [Human jonglenr 2011/02.cl.310.singlet] bladder	mz/9ft/9.rl Mus musculus cDNA, 5' end as: gi- 190410/// /clone=lMAGE:721577 /clone_end=5' /gi=AAZ67673 /gi=1904410 /ug=Mm.24323 //en=136 [gni UC]/Mm#S161770]; m_jongleur(identity);gi_1904410_gb_AA267673.	Forno sapiers asparaginase-like   protein (ALP), m RNA cr. gl-23308566// [Human jonderr 201102,942,C2]	Fromo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gr-6005883/// [Human_jongteur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds cr. gi-603950/// /cds-(29,6145) //girD43948 /gi=603950 /ug=Hs.76989 /len=6628 similar_to_S68176_TO [[Human_jongleur_201102.686.C1]	Ecomo sapieras, Similar to KIAA1001 protein, clora MGC:8996 MAGE:3882 163, mRNA, complete ceta sa: gr.152 1450 II/m 6330406P08 gene [E] [521450   EplBC012375, IBC012375] brain	Forno sapiens KIAA0102 gene product (KIAA0102), mRNA cr: gi-7661907/// 5730405115 gene [Human Jongleur 201102.6112.C1] brain	orth Homo sepiens mesoderm specific transcript homolog (unouse) (MEST), mRNA: hunn ze dan sidentity);gi_4319104_gb_A1465074. 1 A14650774
bladder	Homo sapiens selenoprotein P, plasma, 1 (SEPP1), mRNA cr. gi.4885590// [Human_jongleur_201102.1857.C1] nummary growth factor	Mus musculus demilune cell and parolid protein (Dcpp), mRNA cr. gr.9910187/// [Mouse_Jongleur 201102.3917.C1]; m_Jongleur(identity);gj_318214_gb_W36921.1 [W3692]	Mus musculus submaxillary gland androgen regulated protein 1 (Smr1), mRNA or: gi-14389424/fl [Mouse, jongleur, 201102,2306,C2]; 9. submaxillary, gland, androgen, regulate in jongleur (identity); gi_2803947_gb_AA73679.	Homo sapiens carbonic anhydrase VI gene, exon 6 si: gr-6652972/// [Human jonglen: 2011/2.cl.310.singlet] bladter	mz/9ft/9.r1 Mus musculus cDNA, 5' end as: gi- 190410/// /clone=lMAGE:721577 /clone_end=5' /gi=AAA5/677 /gi=1904410 /ug=Mm.24323 //en=136 [gni UCl/Mm#S161770]; m_jongleur(identity);gi_1904410_gb_AA267673.	Fromo sapiens asparaginase-like   protein (ALP).  mRNA or: gj-23308368///  [Human ioneleur 201102.942.C2] brain	Fromo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gr-6005883/// [Human_jongteur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds cr. gi-603950/// /cds-(29,6145) //gip-D43948 /gi=603950 /ug=Hs.76989 /len=6628 //gip-D43948 /gi=603950 /ug=Hs.76989 /len=6628 //gip_gimilar_to_S68176_TO [[Human_jongleur_201102.686.C1]	Eomo supiera, Similar to KIAA1001 protein, clone MGC-8906 MAGE-8882163, mRNA, complete cds as: gi-15214811. Sil152145011bBC0123751 brain	Forno sapiens KIAA0102 gene product   (KIAA0102), mRNA cr. gr-7561907/// gene   [Human_jongleur 201102.6112.C1]   brain	orth Homo sepiens mesoderm specific transcript homolog (mouse) (NHEST), mRNA; hum. rs. dna(dentity);gi_4319104_gb_A1465074. Al465074 mesodarm specific transcript 1 Al465074 mesodarm specific transcript 1 Al465074 mesodarm.
Homo sapiens angiomotin like 2 (AMOTL2), mRNA er: gi-7705577/// [Human_jongleur_201102.4649.C2] bladder	Homo sapiens se lenoprotein P, plasma, 1 (SEPP1), mRNA cr. gr.4885590/// [Human_jongleur_201102.1857.C1] nummary AI326499, epidermal growth factor	Mus musculus demilune cell and parotid protein (Dcpp), mRNA or: gi-9910187/// [Mouse_longleur_201102.3917.C1]; m_longleur(identry);gi_1318214_gb_W36921.L [W3692] demilune cell and parotid protein W36921	Mus musculus submaxillary gland androgen regulated protein 1 (Smr1), mRNA cr: gi-14389424/ft [Nouse_jongteur_201102.2306.C2]; AA756749_submaxillary_gland_androgen_regulate m_jongleur(identity);gi_2803947_gb_AA736749_d protein_1	Homo sapiens carbonic anhydrase VI gene, exon 6 si: gi-6632972/// Human jonglenr 2011/02.cl 310.singlet bladder	m29909.1 Mus musculus cDNA, S' end as: gi- 190410/// clone=IMAGE:721577 /clone_end=S' /gb=AA2671673 /gj=1904410 /ug=Mm.24323 //en=136 [gni[UG]Mm8S161770]; m_jongleur(identity);vg_1904410_gb_AA267673.	From o sapiens asparaginase-like 1 protein (ALP), mRNA er: gi-23308568// AA639783 Public domain EST [Human joneleur 201102-942.C2]	Ficono sapiens signal sequence receptor, gamma (Translocon-associated protein gamma) (SSR3), mRNA cr. gi-6005883// [Human Jongleur 201102-6056.C1] brain	Homo sapiens mRNA for KIAA0097 protein, partial cds cr. gi-603950/// cds-(29,6145)  - /gi-D43948 /gi-603950 /ug-Hs. /6989 /len=6628  AA123314 ESTs_Highly_similar_to_868176_TO [Human_jongleur_201102.686.C1]  G protein [Hampleus]	Forno supiers, Similar to KIAA1001 protein, clore MGC:8996 MAGGE:882163, mRNA, complete cds as: gi-1521461, mRNA, complete cds as: gi-1521461, affect cds as: gi-1521461, bean figure of sgil 2214601 pBC0123751 brain	Forno sapiens KIAAO102 gene product   (KIAAO102), mRNA cr: gi-7661907///   A1549687 RIKEN cDNA 5730406115 gene   [Human_Jongleur 201102.6112.C1]   brain	orth Homo sepiens mesoderm specific transcript homolog (mouse) (NHEST), mRNA; hum. rs. dna(dentity);gi_4319104_gb_A1465074. Al465074 mesodarm specific transcript 1 Al465074 people
Homo sapients angiomotin like 2 (AMOTL2), mRNA er; gi-77055771// so WI 1432 Leman colled-coil protein [Human Jongleur, 201102-4649.C2] loladder	Homo sapiens selenoprotein P. plasma, 1 (SEPP1), mRNA or gr4885590// [Htman_jongleur_201102.1857.C1] nonminary cpidernal growth factor	Mus musculus demilune cell and parotid protein (Dcpp), mRNA or: gi-9910187// [Mouse_Jongleur_201102.3917.C1]; m_Jongleur(identry);gi_1318214_gb_W36921.1 demilune cell and parotid protein [W33992]	Mus musculus submaxillary gland androgen regulated protein 1 (Smr1), mRNA or: gi-14389424/fl [Nouse, jongteur, 201102,2306,C2]; AA756749, submaxillary, gland, androgen, regulate m jongleur (identity);gi_2803947_gb_AA736749, d. protein 1	Homo sapiens carbonic anhydrass VI gene, exon 6 si: gi-6623972/// [Human jonglenr 2011/02.cl.310.singlet] bladder	mz/9ft/9.rl Mus musculus cDNA, 5' end as: gi- 190410/// /clone=lMAGE:721577 /clone_end=5' /gi=AAZ67673 /gi=1904410 /ug=Mm.24323 //en=136 [gni UC]/Mm#S161770]; m_jongleur(identity);gi_1904410_gb_AA267673.	From o sapiens asparaginase-like 1 protein (ALP), mRNA er: gi-23308568// AA639783 Public domain EST [Human joneleur 201102-942.C2]	Fromo sapiens signal sequence receptor, gamma (translocon-associated protein gamma) (SSR2), mRNA cr. gr-6005883/// [Human_jongteur_201102.6056.C1]	Homo sapiens mRNA for KIAA0097 protein, partial cds or: gj-603950/// /cds-(29,6145) //gj=D43948 /gj=603950/// /cds-(29,6145) //gj=D43948 /gj=603950 /ug=Hs.76989 /len=6628 //123314_ESTs_Highly_similar_to_S68176_TO [[Human_jongleur_201102.686.C1]] brain protein [H-sapiens]	Ecomo sapieras, Similar to KIAA1001 protein, clora MGC:8996 MAGE:3882 163, mRNA, complete ceta sa: gr.152 1450 II/m 6330406P08 gene [E] [521450   EplBC012375, IBC012375] brain	Forno sapiens KIAA0102 gene product (KIAA0102), mRNA cr: gi-7661907/// 5730405115 gene [Human Jongleur 201102.6112.C1] brain	orth Homo sepiens mesoderm specific transcript homolog (unouse) (MEST), mRNA: hunn ze dan sidentity);gi_4319104_gb_A1465074. 1 A14650774
Homo sapiens angiounotin like 2 (AMOTL2), mRNA er: gi-7705577/// W1/432 Leman, colled-coll protein [Human_jongleur_201102.4649.C2] bladder	Homo sapiens se lenoprotein P, plasma, 1 (SEPP1), mRNA cr. gr.4885590/// [Human_jongleur_201102.1857.C1] nummary AI326499, epidermal growth factor	Mus musculus demilune cell and parotid protein (Dcpp), mRNA or: gi-9910187/// [Mouse_longleur_201102.3917.C1]; m_longleur(identry);gi_1318214_gb_W36921.L [W3692] demilune cell and parotid protein W36921	Nus musculus submaxillary gland androgen regulated protein 1 (Smr1), mRNA cr. gi- 14389424// [Mouse, jongleur, 201102.2306.C2]; AA735749_submaxillary_gland_androgen_regulate	Homo sapiens carbonic anhydrase of Human jonglenr 201102.cl.310.singlet bladder	m29909.1 Mus musculus cDNA, S' end as: gi- 190410/// clone=IMAGE:721577 /clone_end=S' /gb=AA2671673 /gj=1904410 /ug=Mm.24323 //en=136 [gni[UG]Mm8S161770]; m_jongleur(identity);vg_1904410_gb_AA267673.	From sapiens asparaginase-like   protein (ALP).  mRNA or: gi-23308366//l from iongleur 201102.942.C2] Ibrain	From sapiens signal sequence receptor, gamma (translocen-associated protein gamma) (SSR2), mRNA cr. gi-6005893/// gene [Human_jongleur_201102.6056.C1] forain	Homo sapiens mRNA for KIAA0097 protein, partial cds cr. gi-603950/// cds-(29,6145)  - /gi-D43948 /gi-603950 /ug-Hs. /6989 /len=6628  AA123314 ESTs_Highly_similar_to_868176_TO [Human_jongleur_201102.686.C1]  G protein [Hampleus]	Forno supiers, Similar to KIAA1001 protein, clore MGC:8996 MAGGE:882163, mRNA, complete cds as: gi-1521461, mRNA, complete cds as: gi-1521461, affect cds as: gi-1521461, bean figure of sgil 2214601 pBC0123751 brain	Forno sapiens KIAAO102 gene product   (KIAAO102), mRNA cr: gi-7661907///   A1549687 RIKEN cDNA 5730406115 gene   [Human_Jongleur 201102.6112.C1]   brain	orth Homo sepiens mesoderm specific transcript homolog (mouse) (NHEN). hum. rs. dna(identity);gi, 4319104_gb_A1465074. Al465074 mesoderm specific transcript 1 Al465074 mesoderm specific transcript 1 Al465074

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.2	Homo sapiens neurofilament, light polypeptide 68kDa (NEFL), mRNA cr. gi-5453/61/// [Human jongleur 201102.8785.C3]	orth zm73601.s1 Homo sapiens cDNA 3' erd as: gi-1578801/// /clone=IMAGE:531240 /clone cmd-3 /(gb-AA7)1438 /gb=[578801 //g=Hs.394289 /len=521 Weakly, similar to preprodealiktein (AA -24 to 238) [Homo sapiens] [H.sapiens] [gm](JG[Hs#548 1014]; h_jong-feur(identity);gi_2233597_gb_AA498574,	Homo sapiens E3 ubiquitin ligase SMURF1 (SMURF), mRNA er: gi-20539202// [Human ioneleur 201102.14736.C1] panereas	crit   Homo sapiens nescient helix   loop helix   (NHLHI), mRNA cr. gr-19923328// [Human jongleur, 201102.103.C2];   h_jongleur, 201102.113.gb_AA223023.   AA223023   AA223023.   AA223023	to 138863 Interacting protein (FINIPY), transcript variant BINIP, imRNA err gi-4502460  FINIP imRNA err gi-4502460  [Human jougleur 201102.1136.C4]	Homo sapiers nucleophosmin (nucleolar phospioprotein B23, numatrin) (NPMI), mRNA or. gi-20070168/// [Human_Jongleur_201102.4957.CB3] panereas	to sapiens cDNA FLJ38286 fis, clone 008153, highly similar to ALPHA- 818 1919 1919 1919 1919 1919 1919 1919	Moderately similar to TRY1_HUMAN Trypsin I precursor (Cationic trypsinogen) [H.sapiens] as: gi.258387// af07g07.s1 Homo sapiens cDNA 3' end /chone=IMAGE:1031004 /chone_end=3' /gb=AA635173/ig=258387// vig=Hs.136626 AA982254 RIKEN cDNA 22100100C04 gene //en=370. [rull/OHH#7881001]	Homo sapiens pancreatic lipase-related protein 1 (PNLPRP), mRNA, cr. gi-5453919// AA674409 pancreatic lipase related protein 1 [Human jongleur 201102.6035.C1] opless	Human pancreatic elastase IIA mRNA, complete cds cds
Homo saptiens, clone MGC:33211 IMAGE:4829800, mRNA. complete cds cr: gi- 2327123711 / cds=(319,1599), gb=BC034999 /gi=23271237 / dgs=18.88276 / rds=1901 [Human jongleur 201102.14048.C.1]	Home sapiens neurofilament, light polypeptide 68kDa (NEFL), mRNA cr. gi-54336./// [Human jongleur 201102.8785.C3]	orth zm/7401 st Homo saptems cDNA 3' erd as: gi-1578801/// /clone=IMAGE:531240 /clone end-9 /(b-7A071438 /g=1578801 //ug=Hs 39428 /len=521.Weakly similar to preprobabilikrein (AA -24 to 238 JHomo sapiens) [H-saptems] [gn][UG Hs#548 1014; h_jong-leun(identity);gi_2233597_gb_AA498574.	Homo sapiens E3 ubiquitin Igase SMURF1 (SMURF), mRNA er; gi-20539202// (SMURF), mRNA er; gi-20539202// (Eluman ioneleur 201102.14736.C1) panereas	crth Homo sapiens nescient helix loop helix I (NHLHI). mRNA cr: gi-19923328// [Human jongleur 201102.103.CZ]; h_jongleur(dentity):gi_1843311_gb_AA223023.	A571665_ESTs_Moderately_similar_to_E3863_interacting_protein (FMIPP). Transcript variant EIB_19KFleb2-275 interacting_protein (FMIPP). Transcript variant EIB_19KFleb2-275 interacting_protein (Figure 20102,1136,C4) pantaces	Homo sapters nucleophosmin (nucleolar phosphosprotein B23, numatrin) (NPMI), nnRNA cr. gi-20070168/// [Human_Jongleur_201102.4957.CB3] panereas	orth Homo sapiens cDNA FLJ38286 fis, clone FCBBF3008153, highly similar to ALPHA- AMYLASE 2B PRECURSOR (EC 3.2.1.1) si: gi- 217498981, [Human_jongleur_201102.cL56.singlet]; [Ljongleur(strong)] Homology)pi_2891752_gb_AA821884_LAA821 [Homology)pi_2891752_gb_AA821884_LAA821] [Homology]pi_2891752_gb_AA821884_LAA821] [Homology]pi_2891752_gb_AA821884_LAA821]	Moderately similar to TRY1_HUMAN Tsyrsin I precursor (Cationic trypsinogen) [H.sapiens] as: gi-2558387II/ at07g07.s1 Homo sapiens cDNA 3' end Adone-MAG1031004 Adone_end=3	Homo sapiens pancreatic lipase-related protein 1 (PNLPRP1), mRNA or: 9:-5453919// (Pluman jongleur 201102.6035.C1] eplesa	Human pancreatic elastase IIA mRNA, complete cds cds cds cds

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Homo sapiens hypothetical protein FLJ10563 (FLJ10563), mRNA cr. gr-8922518// [Human_Jongleur_201102.3657.C1]	orth qc96g08.xt Homo sapiens cDNA 3' en gi-3743449// /cton=IMAGE:1727110 Achore, come=3'/gi=Al192240/gi=3743449 Aug=Hs:147175 Aem=410 [gni]UG [ik481122 h jongleur(identity):gi_7724900_gb_AA15 1 AA153231	orth Homo sapiens KIAAI 576 protein (KIAAI 576), mRNA or: gi-24308256// Hitman Jongleur_201102.7803.C1]; L. Jongeur (Identity):gj_2259229_gb_AI_AA51 8886	orth Homo sapiens similar to intermediate filament-like protein MGC:2625, isoform 2, MOM-TES-103 tumor antigen-like, similar to CGI 5021 gene product (LOC126917), mRNA gi-22041886/// Fluman_iongleur_201102.4338,C3}; h_i ongleur(identity);gi_4613754_gb_Al60458 Al604587	7_gb	COURT_7941852 NIH_MGC_67 ens cDNA clone IMAGE:6172385 ):gi_1595672_gb_AA073925.1_A	Homo sapiens general transcription factor IIE, polypeptide 2 (beta subunit, 34kD) (GTF2E2), mRNA cr. gi-4504194///	120004.x1 Mus musculus cDNA, 3' cnd as: i 1375208/// /clone=IMAGE:904375 /clone_ei 2p=A448 1982 /gi=4375208 /ug=Mm.33142 in_iongieur(identity):gi_4375208_b_A481982.	Mus musculus SR X-box containing gene 11 (Sox11), mRNA or: gi-6678064// INtouse_jongleur. 201102.2327.C1]; rn_jongleur(identity):gi_252705   gb_AA62 1 AA623175
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Homo sapiens hypothetical protein MGC18216 (MGC18216), mRNA cr. gi-22748948///

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Homo sapiens hypothetical protein MGC26914 (MGC26914), mRNA cr. gi-21699059///

Homo sapiens growth factor, augmenter of liver

regeneration (ERV1 homolog, S. cerevisiae) (GFER), mRNA cr. gi-4885264///

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Mus musculus adult male hippocampus cDNA,

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orth Homo sapiens hypothetical protein FLJ21868 (FLJ21868), mRNA cr. gi-1223246/// [Human_jongleur_201102.3791.C1]; 10mology);gi_2670659_gb_AA684073.1_AA684

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stonach	(I/OFXI), transcription factor, X-50x (1/OFXI), transcript variant 1, mRNA cr. 2923/// iongleur 201102.12184.C2] stomach	зюпась	intestine	manumary gland	nessenger RNA for beta-globin brain	nessenger RNA for beta-globin brain	brain	E 6-  2ASE liver  2ASE liver  2-kinase :  sscolus] as: y  cults cDNA,  m= ene-5'  m.132391  b_A1529513.1  brain	brain	brain
il d02.y1 Beddington mouse embryonic region is mussulus cDNA clone IMAGE: 8226.77 5; (identity); gj. 4482024.gb_A1549661.1_A15496 stomach	(I/OFXI), transcription factor, X-50x (1/OFXI), transcript variant 1, mRNA cr. 2923/// iongleur 201102.12184.C2] stomach	зюпась	intestine	manumary gland	nessenger RNA for beta-globin brain	nessenger RNA for beta-globin brain	brain	E 6-  2ASE liver  2ASE liver  2-kinase :  sscolus] as: y  cults cDNA,  m= ene-5'  m.132391  b_A1529513.1  brain	brain	brain
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il d02.y l Beddington mouse embryonic region is musculus cDNA clone IMAGE:8226.77 5; (identity); gi_4482024_gb_A1549661.1_A15496 stomach	(I/OFXI), transcription factor, X-50x (1/OFXI), transcript variant 1, mRNA cr. 2923/// iongleur 201102.12184.C2] stomach	зюпась	intestine	manumary gland	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Moderately similar to F261_MCUSE 6-phosphorium co. 2,6—biphosphoratase I (6PF-2-K/Fm-2,6-PASE liver isozyme) [Includes: 6-phosphofineto-2-kinäse; Fructose-2,6-bisphosphatase] IM. musculus] as: #i	brain	brain
ve61 002.y1 Beddington mouse embryonic region Mus muscalus cDNA clone IMAGE 8226.77 5; est(identity); gi_4482024_gb_A1549661.1_A15496 61	Homo sapiens nuclear transcription factor, X-box binding 1 (VFX1), transcript variant 1, mRNA cr: gi-22212923/// [Bi-mran jongleur 201102.12184.C2] stomach	Mas musculus adult maic brain cDNA, RIKEN full-length enriched library, clone-071001D07:unclassifiable transcript. full insert sequence cr. gi-128329014 gi-12833293 /ug=Mm.45160 /len=1133 002941 /gi-12833293 /ug=Mm.45160 /len=1133 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.4516	Firman cathepsin L gene, complete eds er. gi- 809235// [Human] ongleur_201102.11245.C6] intestine	manumary gland	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Moderately similar to F261_MCUSE 6-phosphorium co. 2,6—biphosphoratase I (6PF-2-K/Fm-2,6-PASE liver isozyme) [Includes: 6-phosphofineto-2-kinäse; Fructose-2,6-bisphosphatase] IM. musculus] as: #i	brain	brain
ve61 d02.y1 Beddington mouse embryonic region Mus musculus cDNA clone INAAGE:8226.7 5; est(identity):gi_4482024_gb_A1549661.1_A15496 stonach	Homo sapiens nuclear transcription factor, X-box binding 1 (VFX1), transcript variant 1, mRNA cr: gi-22212923/// [Bi-mran jongleur 201102.12184.C2] stomach	Mas musculus adult maic brain cDNA, RIKEN full-length enriched library, clone-071001D07:unclassifiable transcript. full insert sequence cr. gi-128329014 gi-12833293 /ug=Mm.45160 /len=1133 002941 /gi-12833293 /ug=Mm.45160 /len=1133 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.4516	Firman cathepsin L gene, complete eds er. gi- 809235// [Human] ongleur_201102.11245.C6] intestine	Mus musculus trophobiast specific protein alpha (Tpbpa), mRNA cr: gi-6678404//, [Mouse: jorgleur, 201102.3553.CZ]; m_jorgleur(identity):gi_1834142_gb_AA220024, mannany 1 AA220024	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Moderately similar to F261_MCUSE 6-phosphorium co. 2,6—biphosphoratase I (6PF-2-K/Fm-2,6-PASE liver isozyme) [Includes: 6-phosphofineto-2-kinäse; Fructose-2,6-bisphosphatase] IM. musculus] as: #i	Homo sapiens septin 3 (SEPT3), transcript variant A, mRNA er: gr.220355711// [Hurran jonkleur 201102.12125.C.2] brain	brain
ve61 d02.y1 Beddington mouse embryonic region Mus musculus cDNA clone INAAGE:8226.7 5; est(identity):gi_4482024_gb_A1549661.1_A15496 stonach	Homo sapiens nuclear transcription factor, X-box binding 1 (VFX1), transcript variant 1, mRNA cr: gi-22212923/// [Bi-mran jongleur 201102.12184.C2] stomach	Mas musculus adult maic brain cDNA, RIKEN full-length enriched library, clone-071001D07:unclassifiable transcript. full insert sequence cr. gi-128329014 gi-12833293 /ug=Mm.45160 /len=1133 002941 /gi-12833293 /ug=Mm.45160 /len=1133 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.4516	Firman cathepsin L gene, complete eds er. gi- 809235// [Human] ongleur_201102.11245.C6] intestine	Mus musculus trophobiast specific protein alpha (Tpbpa), mRNA cr: gi-6678404//, [Mouse: jorgleur, 201102.3553.CZ]; m_jorgleur(identity):gi_1834142_gb_AA220024, mannany 1 AA220024	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Moderately similar to F261_MCUSE 6-phosphorium co. 2,6—biphosphoratase I (6PF-2-K/Fm-2,6-PASE liver isozyme) [Includes: 6-phosphofineto-2-kinäse; Fructose-2,6-bisphosphatase] IM. musculus] as: #i	Homo sapiens septin 3 (SEPT3), transcript variant A, mRNA er: gr.220355711// [Hurran jonkleur 201102.12125.C.2] brain	brain
ve61 d02.y1 Beddington mouse embryonic region Mus musculus cDNA clone INAAGE:8226.7 5; est(identity):gi_4482024_gb_A1549661.1_A15496 stonach	Homo sapiens nuclear transcription factor, X-box binding 1 (VFX1), transcript variant 1, mRNA cr: gi-22212923/// [Bi-mran jongleur 201102.12184.C2] stomach	Mas musculus adult maic brain cDNA, RIKEN full-length enriched library, clone-071001D07:unclassifiable transcript. full insert sequence cr. gi-128329014 gi-12833293 /ug=Mm.45160 /len=1133 002941 /gi-12833293 /ug=Mm.45160 /len=1133 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /len=1134 002941 /gi-12833293 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /gi-1283329 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.45160 /ug=Mm.4516	Firman cathepsin L gene, complete eds er. gi- 809235// [Human] ongleur_201102.11245.C6] intestine	Mus musculus trophobiast specific protein alpha (Tpbpa), mRNA cr: gi-6678404//, [Mouse: jorgleur, 201102.3553.CZ]; m_jorgleur(identity):gi_1834142_gb_AA220024, mannany 1 AA220024	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Moderately similar to F261_MCUSE 6-phosphorium co. 2,6—biphosphoratase I (6PF-2-K/Fm-2,6-PASE liver isozyme) [Includes: 6-phosphofiucto-2-kinäse; Fructose-2,6-bisphosphatase] IM. musculus] as: gi 15714 (124) (61350007871 Mas unsculus DNA, 5° end (clong=NACE:5368118 (clong=end=5) //gb=B1737149/gi=15714162/ug=Mm.132391 M flen=896, [gmlUG)/kmi#S2184367]; m_jong-gueri/dentity);gj_4443648_gb_A1529513.1 A1729513	Homo sapiens septin 3 (SEPT3), transcript variant A, mRNA er: gr.220355711// [Hurran jonkleur 201102.12125.C.2] brain	Homo sapiens mRNA; cDNA DKFZp761J0720 (from clone DKFZp761J0720 (from clone DKFZp761J0720) /gj=AL83322 /gj=2J73388 /ug=Hs,34984; ner=3602.Highly similar to RPC! HUMAN Pore in kinase G, betalitype (FKC-beta-1) [H sapiens] or: gj-21733885//H Homo sapiens mRNA; cDNA DKFZp761J0720 (from clone DKFZp61D920) /gj=AL833252 /gj=2J733885 /ug=Hs,349845 /len=3602.  Human jongfeu. 201102.2069 C1]
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ve61 d02.y1 Beddington mouse embryonic region Mus musculus cDNA clone INAAGE: 8226.7 5; est(identity): gi_4482024_gb_A1549661.1_A15496 stonach	Homo sapiens nuclear transcription factor, X-box binding 1 (VFX1), transcript variant 1, mRNA cr: gi-22212923/// [Bi-mran jongleur 201102.12184.C2] stomach	Mas musculus adult maic brain cDNA, RIKEN full-length enriched library, clone-071001D07:unclassifiable transcript. full insert sequence cr. gi-12832901/gi-12833293 //ug=Mm.45160 /len=1133 002941 /gi-12833293 //ug=Mm.45160 /len=1133 002941 /gi-12833293 //ug=Mm.45160 /len=1134 002041 /gi-12833293 //ug=Mm.45160 //ug=1134 002041 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //u	Firman cathepsin L gene, complete eds er. gi- 809235// [Human] ongleur_201102.11245.C6] intestine	Mus musculus trophobiast specific protein alpha (Tpbpa), mRNA cr. gi-66784044// [Mouse jongleur, 201102.355.72]; m_jongleur(identity):gi_1834142_gb_AA220024. mannaay specific protein 1 AA220024.	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Moderately similar to F261_MCUSE 6-phosphorium co. 2,6—biphosphoratase I (6PF-2-K/Fm-2,6-PASE liver isozyme) [Includes: 6-phosphofiucto-2-kinäse; Fructose-2,6-bisphosphatase] IM. musculus] as: gi 15714 (124) (61350007871 Mas unsculus DNA, 5° end (clong=NACE:5368118 (clong=end=5) //gb=B1737149/gi=15714162/ug=Mm.132391 M flen=896, [gmlUG)/kmi#S2184367]; m_jong-gueri/dentity);gj_4443648_gb_A1529513.1 A1729513	Homo sapiens septin 3 (SEPT3), transcript variant A. mRNA er: gr.22035571/// [Hunan joneterr 201102.12125.C2] brain	Homo sapiens mRNA; cDNA DKFZp761J0720 (from chen DKFZp7610720) (from chen DKFZp7610720) (gi=4.183222 /gi=2J733885 /ug=Hs,34984 Nen=5002.Highly similar to KPC! HUMAN Protein kimase G, beta-I type (FKC-beta-I) [H-sapiens] or: gi-21733885//l Homo sapiens mRNA; cDNA DKFZp7761J0720 (from chene DKFZp7610720) (gb=4.1833252 /gi=2J733885 /ug=Hs,34984 Nen=5602. (Human, Jongfeur, 201102.2069 C1)
ve61 d02.y1 Beddington mouse embryonic region Mus muscalus cDNA clone INAGE: 8.226.7 5; est(identity): gi_4482024_gb_A1549661.1_A15496 stonach	Homo sapiens nuclear transcription factor, X-box binding 1 (VFX1), transcript variant 1, mRNA cr: gi-22212923/// [Bi-mran jongleur 201102.12184.C2] stomach	Mas musculus adult maic brain cDNA, RIKEN full-length enriched library, clone-071001D07:unclassifiable transcript. full insert sequence cr. gi-12832901/gi-12833293 //ug=Mm.45160 /len=1133 002941 /gi-12833293 //ug=Mm.45160 /len=1133 002941 /gi-12833293 //ug=Mm.45160 /len=1134 002041 /gi-12833293 //ug=Mm.45160 //ug=1134 002041 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //ug=1140 //u	Firman cathepsin L gene, complete eds er. gi- 809235// [Human] ongleur_201102.11245.C6] intestine	Mus musculus trophobiast specific protein alpha (Tpbpa), mRNA cr. gi-66784044// [Mouse jongleur, 201102.355.72]; m_jongleur(identity):gi_1834142_gb_AA220024. mannaay specific protein 1 AA220024.	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Human messenger RNA for beta-globin brain	Moderately similar to F261_MCUSE 6-phosphorium co. 2,6—biphosphoratase I (6PF-2-K/Fm-2,6-PASE liver isozyme) [Includes: 6-phosphofiucto-2-kinäse; Fructose-2,6-bisphosphatase] IM. musculus] as: gi 15714 (124) (61350007871 Mas unsculus DNA, 5° end (clong=NACE:5368118 (clong=end=5) //gb=B1737149/gi=15714162/ug=Mm.132391 M flen=896, [gmlUG)/kmi#S2184367]; m_jong-gueri/dentity);gj_4443648_gb_A1529513.1 A1729513	Homo sapiens septin 3 (SEPT3), transcript variant A. mRNA er: gr.22035571/// [Hunan joneterr 201102.12125.C2] brain	Homo sapiens mRNA; cDNA DKFZp761J0720 (from chen DKFZp7610720) (from chen DKFZp7610720) (gi=4.183222 /gi=2J733885 /ug=Hs,34984 Nen=5002.Highly similar to KPC! HUMAN Protein kimase G, beta-I type (FKC-beta-I) [H-sapiens] or: gi-21733885//l Homo sapiens mRNA; cDNA DKFZp7761J0720 (from chene DKFZp7610720) (gb=4.1833252 /gi=2J733885 /ug=Hs,34984 Nen=5602. (Human, Jongfeur, 201102.2069 C1)
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Homo sapiens hypothetical protein FL/ (FLJ22624), mRNA cr. gi-13376190///	/GENCOURT 8840212 Home sapi end cr. gi-22348912/f/ /clone=lMA/G /clone_end=5'/gb=BQ93529 /gj=2'/dig=Hs/39 f64 /fcm=335	Human mRNA for cardiac troponin I cr. gi-	Moderately similar to CLUS_HUMAN Clus precursor (Complement-associated protein S 40.40) (Complement cytolysis inhibitor) (CI (NAI and NA2) (Apolipoptotein J) (Apo-1) (TRPM-2) [Haspiens as: gi-161586/// zm89e05.3 Homo sapiens cDNA 3 end Aclone=IMAGE:545120 /clone_and=3 cm8-161586/// gip=AA075716 /gip=161586 /ug=Hs.39435.	orth U.H.Bilabz-f-03-0-ULsi Homo sap- cDNA 3' end cr. gi-6140309/// chone=lMAGE:27/13499 /clone_end=3' /gp=AW136176 /gj-614030 /ug=Hs.3707 /dren-397 /Weally similar to YZAL JEUMA HYPOTHETICAL PROTEIN [H.sapiens]  Hurnan_jongleur_201 [02.6858.CZ]; h. jongeur(idenity);gi_3526656_gb_AI12.	Homo sapiens death-associated prot (DAPK3), mRNA cr. gi-457510///	Homo sapiens, KJAA(MGC: 13345 IMAGE: eds si: gi-15214811///	Homo sapiens zuotin related factor mRNA cr: gi-22049761/// (Human jongleur 201102.987.C3]	Homo sapiens cDNA FLJ36226 ffs, clone THYMU2001018, moderately similar to N PROTEIN ai: gi-21752445/// Human jongleur_201102.cl.22024.single	Moderately similar to S12207 hypothetical protein: (187 June 1970) protein: (187 June 1970) protein: (187 June 1971) protein: (187 June 1971) protein: (187 June 1971) protein: (187 June 197 Ju
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259 300	AA517193_uncl 19_homolog_(Celegans) AA211954_RIKEN_cDNA_4930511A05_gene AA530026_ESTs AA438040_Public_domain_EST	Homo sapiens unc-119 homolog (C. etegans) (UNC 119), mascript variant, in RNA or gri- 1693.6237/// [Human_jongleur_20102.4091.C.]] stomach Homo sapiens hypothetical SDBIG protein (SBB103), mRNA cr. gr503.2070/// [Human jongleur_201102.6023.C.]] stomach Human phosphoglycerate mutase 2 (muscle specific isozyme) (PGAMZ) gene. 5; end si; gri- 1898.69/// [Human_jongleur_201102.c.125.singlet] mRNA si; gr-2014.808/// [Human_jongleur_201102.c.125.singlet] stomach Human_jongleur_201102.c.125.singlet] stomach	stomach stomach stomach stomach					
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# stomach stornach stomach tomach tomach tomach Homo sapiens hypothetical protein DK-Zp564K0822 (DK-ZP564K0822), mRNA cr. g-13540577/// Homo sapiens mRNA for period (Drosophila) homolog 3 hPER3, complete cds cr: gi-131 60924/// [Human_longleur_201102.2143.C5] NT2RM/2006628, ESTs. Highly_similar_to_T08741_hyp_mRNA for KIAA0729 protein cr. gi-7022294/// otherical_protein_DKTZp586C0518.1_[Haspiens] [Human_jongleur_201102.3221.62] orth Homo sapiens hypothetical protein FLJ10997 (FLJ10997). mRNA cr. gl-8922809/// [Human_Jongleur_201102.2733.C]]; nomology):gi_1901379_gb_AA265101.1_AA265 est(identity): gi_1889462_gb_AA254875.1_AA25 est(identity):gi_4482932_gb_A1550569.1_A15505 AGENCOURT 7896003 Homo saplens cDNA 5: end cr: gi-21179761/// /clone=IMAGE:6156113 /clone_end=5 /gb=BQ440685 /gi=21179761 Homo sapiens fieterogeneous nuclear ribonucleoprotein L (HNRPL), mRNA cr. gi-4557644/// [Human_jongleu_201102.4589.C4] Homo sapiens GDP dissociation inhibitor 2 BB053703 RIKEN full-length enriched, 12 days embryo male wolffian duct Mus musculus cDNA glycosyltransferase, clone MGC:33333 IMAGE:4821103, mRNA, complete cds cr: gi-A1594129 Mus. musculus, clone IMAGE:349411 [22713409/// II, mRNA, partial cds A4450453 Mus. musculus, Similar io, hypothetic flomo sapiens hypothetical protein CL25022 A1 protein, clone, MGC:7581, mRNA, complete (CL25022), mRNA er; 9:7661547/// [Human Jongteur, 201102:9081.C1] AV378849 RIKEN full-tength enriched, adult rrale eecum Mus musculus cDNA clone Homo sapiens cDNA FLJ10331 fis, clone Homo sapicus serine/threonine kinase 12 (STK12), mRNA cr. gi-4759177/// Human_iongleur_201102.16845.C1] [Human_jongleur_201102.5608.C1] (GDI2), mRNA cr. gi-6598322/// [Human_jongleur_201102.744.C2] Human_jongleur_201102.967.C1J Homo sapiens, Similar to likeug=Hs.191045 /len=883 c.one 6720465D24 31; .jonglew(strong 9130604316 3'; AA265101 RIKEN_cDNA_1600021C16_gene AA105367_period_homolog_3_(Drosophila) AA470284 serine/threonine_kinase_5 AA624604 Public domain EST AA413026 Public domain EST AA212102_ESTs AA254875 ESTs AA474160_ESTs AI550569 ESTs

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orth Homo sapiens phosphoprotein regulated by mitogenic pathways (CSFW), mRNA err git- 13399327/// [Human_jongeur_201102.3199.C1]; orein_regulated_by_minogenic_pathways,_clone_Mhomology);gi_2271954_gh_AA529248.1_AA529 GC:11732_mRNA*, complete_cds 248	e (DGUOK), oding :18426966///	end cr. gi- 97024 iliar to r (Kallikrein piens]	nd as: gi- 438834 #S1666742]		ilar to C150),	NA clone UI- 200.1_A15502	orth UI-H-EII-ayy-i-09-0-UI.si NCI_CGAP_EII Homo sepiens cDNA clone UI-H-EII-ayy-i-09-0- UI 3? est(demity):gi_4482037_gt_A1549694.1_A15496	⁴ A cr: gi-
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corresponding human or mouse	, id			Mus musculus uterine-specific profine-rich acidic protein (Upa), mRNA cr. gi-6678510/// [Mouse_jongleur_201102.4046.C1]; m_jongleur(identity):gi_1292452_gb_1717866.1_w17866.1_w17866.1_	Homo saprens serine protease inhibitor, Kazal type (SPINK1), mRNA cr gi-4507178/ii [Human iongleur 201102.8585,C1] [13	Homo sapiens villin 1 (VIL1), mRNA cr. gi-6005943/// [Human_jongleur_201102.1802.C1] [13		11 1
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see Table 5	see Table 5	orth Homo sapiens cysteine-rich. angiogenic inducer, 61 (CYR61), mRNA cr. gi-4504612// [Human_jongleur_201102.8413.C2] h_jongleur[dentity]:gi_2192992_gb A 4466852	Homo sapiens eosinophil chemotactic cytokine (TSA1902), mRNA cr: gl-11141866/// Human ioneleur 201102.2578.C21		orth Homo sapiens heat shock 70kDa protein 1B (HSPA1B), mRNA cr. gi-5579470/// [Human_jongleur_201102.8523.C4]	AA445731.1	Homo sapiens heat shock 70kDa protein 1A (HSPA1A), mRNA cr 5579469/ll [Human jongleur 201102.8523.4	see Table 5	see Table 5
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A1550591_RIKEN_cDNA_2010003F		AA623172_defensin_related_cryptdin _6		A1893944_forkhead_box_G1	AA619953_ESTs,_Weakly_similar_tc _T25027_hypothetical_protein_T20D 3.5 Caenorhabditis_elegans] [C.elegans]	AA034678_rhotekin	AA727521_Mus_musculus_11_kDa_s ecreted_protein_precursor,_mRNA,_c omplete_cds	AA822098. apolipoprotein_A-1	intestine	AA619407_pancreatitis- associated_protein
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Homo sapiens cytochrome P450 variant 347 (CYP347) mRNA, complete cds si: gi-12082808/// [Human_jongleur_201102.cl.90.sing let]	see Table 5	t see Table 5	see Table 5.	Homo sapiens hypothetical protein FLJ10830 (FLJ10830), mRNA cr: gi- 8922698/// [Human_jongleur_201102.3671.C2]	Homo sapiens dipeptidase I (renal) (DPEPI), mRNA cr. gi-4758189// [Human_jongleur_201102.8623.CI		see Table 5.	see above	see Table 5
AA237986_cytochrome_P450_3a25	W56983_peripheral_myelin_protem 22_kDa	AA107035_guanylate_cyclase_activat or_2b_(retina)	AA110886_amnionless	AA109873_RIKEN_cDNA_0610010 E05_gene		AA871838_phospholipase_A2,_group _IIA_(platelets_synovial_fluid)	AA656394_RIKEN_cDNA_11100251 15_gene	AA656694_cytochrome_P450,_2b9,_ phenobarbitol_inducible,_type_a	
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Homo sapiens cytochrome P450, subfamily IIB (phenobarbital-inducible), polypeptide 6 (CYP2B6), mRNA cr. gi-20522261///[Human_jongleur_201102.5324.C1]	sce Table 5	see Table 5	Homo sapiens metallothionein 2 pseudogene 1 (processed) (MT2P1) on chromosome 4	see Table.5		see above	see Table 5	see Table 5	Homo sapiens dihydroorotate dehydrogenase (DHODH), nuclear gene encoding mitochondrial protein, mRNA cr. gi-16/53222/// [Human_jongleur_201102.3057.Ct]
Homo sapiens cytochrome subfamily IIB (phenobarb) inducible), polypeptide 6 ( A1325330_cytochrome_P450,_2b13,_mRNA cr. gi-20522261/// 2 phenobarbitol_inducible,_type_c [Human_jongleur_201102]	AA242201_serine_protease_inhibitor,	AA516927_sphingosine_phosphate_ly	AA638765_mepulothionein_1	AA822098 apolipoprotein A-I	stomach	.A1549624_RIKEN_cDNA_0610041E 09_gene	AA617112_ESTs	A1604587_ESTs	Homo sapiens dihydroorotate dehydrogenase (DHODH), nuclear gene encoding mitochondrial AA544433_dihydroorotate_dehydroge protein, mRNA cr. gi-16753222///nase
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13 12 10 9 8 8 7 6		Human mRNA for liver alcohol dehydrogenase (EC 1.1.1.1) gamma 2 subunit from ADH3 locus sr. gi-28403 <i>ii</i> [Human_jongleur_201102.cl.2404.si nglet]				see above		see Table 5
	AA881013 cytochrome P450, 2c37	AI507919_alcohol_dehydrogenase_1,	1	- ""	I .	AA638765 metallothionein 1	AA162217_pre-B-cell_colony-enhancing_factor	AA274023_apoptosis_inhibitory_6
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AA543982_interleukin_1.receptor_ty	Homo sapiens hydroxy-delta-5-steroid dehydrogenase, 3 beta- and AA245848_hydroxysteroid_dehydrog steroid detta-isomerase 2 (HSD3B2) enase-3, delta-5>-3-beta mRNA		AA027607_hydroxysteroid_17- beta defiydrogenase 2	A1789976_fatty_acid_Coenzyme_A_li	panereas	AA619407_pancreatitis- associated protein	orth Homo sapiens, Similar to TATA box binding protein (TBP)-associated factor, RNA polymerase 11, S, 150kD, clone IMAGE:3636799, mRNA cr. gi-15559581/// [Human_jongleur_201102.11703.C2 ein_(TBP)-1].  associated_factor_RNA_polymerase_h_jongleur(identity):gi_1556203_gb_11, S, 150kD	
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# Ç plad ling ... 20.2 stom 6 5 E derived I alpha (pancreatic stone protein, pancreatic thread protein) (REG1A), mRNA cr. gi-4506470/// [Human_jongleur_201102.658.C1] Homo sapiens albumin (ALB), mRNA cr. gi-8392890/// [Human_jongleur_201102_252.C13] Homo sapiens regenerating isletsee Table 5 see Table 5 see Table 5 AA822106_ESTs_Weakly_similar_to COSA_HUMAN_COMPLEMENT_ COMPONENT_CS_ALPHA_CHAIN PRECURSOR_[H.sapiens] see AA437717_ESTs_Moderately_simila r_to_T34531_hypothetical_protein_D KFZp434P1215.1_[H.sapiens] AA821884_amylase_2,_pancreatic Ai386058 serum albumin variant AA237793_rat_regenerating_isletderived, mouse homolog 116 336 248 337 4

#### Claims

- 1. A method of diagnosing a cancer in a subject comprising determining, in a sample from the subject, the level of at least one polypeptide, wherein a higher level of the polypeptide compared to the level of the polypeptide in a subject free of cancer is indicative of cancer, and wherein the polypeptide is selected from the group consisting of:
  - a) polypeptides encoded by the polynucleotides listed in Table5; and
  - b) polypeptides which are at least 70% homologous to the polypeptides of a).
- 2. The method of claim 1 wherein the sample is taken from a bodily fluid.
- 3. The method of claim 2 wherein the bodily fluid is selected from the group of fluid consisting of blood, lymph fluid, ascites, serous fluid, pleural effusion, sputum, cerebrospinal fluid, lacrimal fluid, synovial fluid, saliva, stool, sperm and urine.
- 4. The method of claim 1 wherein the level of the polypeptide is determined by a method selected from the group consisting of immunohistochemistry, western blotting, ELISA, antibody microarray hybridization and targeted molecular imaging.
- 5. A method of diagnosing a cancer in a subject comprising determining, in a sample from the subject, the level of at least one polypeptide, wherein a higher level of the polypeptide compared to the level of the polypeptide in a subject free of cancer is indicative of cancer, and wherein the polypeptide is selected from the group consisting of:
  - a) polypeptides encoded by the polynucleotides listed in Table 6; and
  - b) polypeptides which are at least 70% homologous to the polypeptides of a).
- 6. The method of claim 5 wherein the sample is a tissue sample.
- 7. The method of claim 6 wherein the tissue is selected from the group of tissue consisting of brain, lung, liver, spleen, kidney, pancreas, intestine, colon, mammary gland or breast, stomach, prostate, bladder, placenta and uterus.
- 8. The method of claim 5 wherein the level of the polypeptide is determined by a method selected from the group consisting of immunohistochemistry, western blotting, ELISA and targeted molecular imaging.

9. A method of diagnosing a cancer in a subject comprising determining, in a sample from the subject, the level of at least one polypeptide-encoding polynucleotide, wherein a higher level of the polynucleotide compared to the level of the polynucleotide in a subject free of cancer is indicative of cancer, and wherein the polynucleotide is selected from the group consisting of:

- a) the polynucleotides listed in Table 6;
- b) polynucleotides having sequences that differ from the polynucleotides in (a), without changing the polypeptide encoded thereby; and
- c) polynucleotides which are at least 70% homologous to the polynucleotides of (a).
- 10. The method of claim 9 wherein the sample is a tissue sample.
- 11. The method of claim 10 wherein the tissue is selected from the group of tissue consisting of brain, lung, liver, spleen, kidney, pancreas, intestine, colon, mammary gland or breast, stomach, prostate, bladder, placenta and uterus.
- 12. The method of claim 9 wherein the sample is a is taken from a bodily fluid.
- 13. The method of claim 12 wherein the bodily fluid is selected from the group of fluid consisting of blood, lymph fluid, ascites, serous fluid, pleural effusion, sputum, cerebrospinal fluid, lacrimal fluid, synovial fluid, saliva, stool, sperm and urine.
- 14. The method of claim 9 wherein the level of the polynucleotide is determined by a method selected from: RT-PCR analysis, in-situ hybridization, polynucleotide microarray and Northern blotting.
- 15. A method of measuring the responsiveness of a subject to a cancer treatment comprising determining the level of at least one polypeptide in a sample taken from the subject before treatment, and comparing it with the level of said polypeptide in a sample taken from the subject after treatment, a decrease in said level indicating responsiveness of said subject to the cancer treatment, wherein the polypeptide is selected from the group consisting of:
  - a) polypeptides encoded by the polynucleotides listed in Table 5 and Table 6; and
  - b) polypeptides which are at least 70% homologous to the polypeptides of a).
- 16. The method of claim 15 wherein the sample is taken from a bodily fluid.
- 17. The method of claim 16 wherein the bodily fluid is selected from the group of fluid consisting of blood, lymph fluid, ascites, serous fluid, pleural effusion, sputum, cerebrospinal fluid, lacrimal fluid, synovial fluid, saliva, stool, sperm and urine.

18. The method of claim 15 wherein the level of the polypeptide is determined by a method selected from the group consisting of Western blotting, ELISA and targeted molecular imaging.

- 19. A method of measuring the responsiveness of a subject to a cancer treatment comprising determining the level of at least one polypeptide-encoding polynucleotide in a sample taken from the subject before treatment, and comparing it with the level of said polynucleotide in a sample taken from the subject after treatment, a decrease in said level indicating responsiveness of said subject to the cancer treatment, wherein the polynucleotide is selected from the group consisting of:
  - a) the polynucleotides listed in Table 6;
  - b) polynucleotides having sequences that differ from the polynucleotides in a), without changing the polypeptide encoded thereby; and
  - polynucleotides which are at least 70% homologous to the polynucleotides of a).
- 20. The method of claim 19 wherein said sample is blood or bone marrow cells.
- 21. The method of claim 19 wherein the level of the polynucleotide is determined by RT-PCR analysis.
- 22. The method of claim 15 or 19 wherein the treatment is administration of a chemotherapeutic drug.
- 23. The method of claim 15 or 19 wherein the treatment is radiotherapy.
- 24. The method of any one of claims 1, 5 or 9 wherein a change in the level of the polynucleotide or polypeptide as compared with the normal level is indicative of an abnormality in a tumor suppressor gene or a biological pathway in which a tumor suppressor gene is involved.
- 25. The method of claim 24 wherein the tumor suppressor gene is selected from the tumor suppressor group consisting of p53, Rb1 and PTEN.
- 26. The method of any one of claims 1, 5 or 9 wherein a change in the level of the polynucleotide or polypeptide as compared with the normal level is indicative of the effectiveness of a drug that modulates the activity of a tumor suppressor gene.
- 27. The method of claim 26 wherein the tumor suppressor gene is selected from the tumor suppressor group consisting of p53, Rb1 and PTEN.
- 28. A method of identifying a diagnostic marker for a cancer comprising:

a) obtaining a first cell from a first cell type of said cancer, said cell comprising a defective tumor suppressor expression;

- b) obtaining a second cell of the first cell type, wherein said second cell comprises a wild-type tumor suppressor expression;
- c) identifying genes having an increased level of expression in the first cell as compared to the second cell; and
- d) selecting at least one gene of step c) as a diagnostic marker for the cancer.
- 29. The method of claim 28 further comprising:
  - obtaining a first cell from a second cell type of said cancer, said cell comprising a defective tumor suppressor expression;
  - b) obtaining a second cell of the second cell type, wherein said second cell comprises a wild-type tumor suppressor expression;
  - c) identifying genes having an increased level of expression in the first cell of the second cell type as compared to the second cell of the second cell type;
  - comparing the genes having an increased expression in the first cell type with the genes having an increased expression in the second cell type;
  - e) identifying genes having an increased expression in the first cell type but not in the second cell type; and
  - f) selecting at least one gene of step (e) as a diagnostic marker of a cancer of the first cell type.
- 30. The method of claim 28 or 29 wherein the tumor suppressor gene is selected from the tumor suppressor group consisting of p53, Rb1 and PTEN.
- 31. The method of claim 28 wherein the identification of step c) is performed using a microarray.
- 32. The method of claim 29 wherein the identification of step e) is performed using a microarray.
- 33. The method of claim 29 wherein the identification of step c) and e) are both performed using a microarray.
- 34. A method for screening for compounds that modulate the activity of a tumor suppressor gene comprising:
  - a) obtaining a cell comprising a defective tumor suppressor expression;
  - b) measuring the level of expression of a marker of Table 5 or 6 in the cell;
  - c) contacting the cell with a test compound; and
  - d) measuring the expression of the marker of step b) after the contacting step c), wherein a change in the level of expression after said contacting step as compared to the level of expression before said contacting step is indicative of the ability of the compound to modulate the activity of the tumor suppressor gene.

35. The method of claim 34 wherein the change in the level of expression in step c) is a reduction in the level of expression.

36. Use of compounds identified according to the method of claim 35 in the treatment of cancer or as anti-cancer drugs.

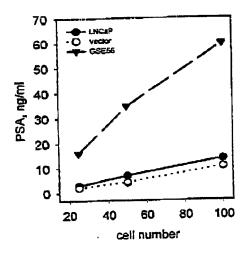


FIGURE 1

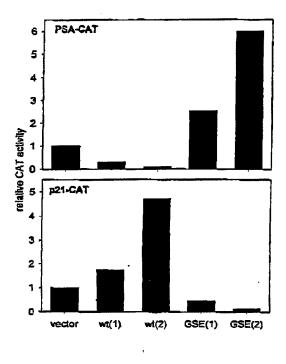


FIGURE 2

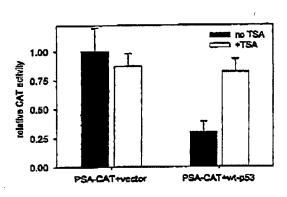


FIGURE 3

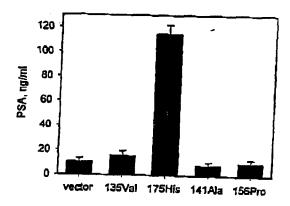


FIGURE 4

#### Figure 5

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>gi|10190652|ref|NM|003901.1| Homo sapiens sphingosine-1-phosphate lyase 1 (SGPL1), mRNA [SEQ ID NO:
     {\tt GGAAGGACGCAGGAGGTGGAGCCGGCCGGGTGCTCGAGGGAAGGAGACTGGAAGCTGGTT}
     CCGGCGTGAGGGAGAGTCTGAAAAAGGGGGGGCGCGGAGAGGGGGGGAGGAGGAAGATG
     {\tt CCTAGCACAGACCTTCTGATGTTGAAGGCCTTTGAGCCCTACTTAGAGATTTTGGAAGTA}
     TACTCCACAAAAGCCAAGAATTATGTAAATGGACATTGCACCAAGTATGAGCCCTGGCAG
10
     \tt CTAATTGCATGGAGTGTCGTGGGACCCTGCTGATAGTCTGGGGGATATGAGTTTGTCTTC
     CAGCCAGAGAGTTTATGGTCAAGGTTTAAAAAGAAATGTTTTAAGCTCACCAGGAAGATG
     {\tt CCCATTATTGGTCGTAAGATTCAAGACAAGTTGAACAAGACCAAGGATGATATTAGCAAG}
     {\tt AACATGTCATTCCTGAAAGTGGACAAAGAGTATGTGAAAGCTTTACCCTCCCAGGGTCTG}
     15
     GAGGGGAGAGCCTCTGGAACAGTGTACAGTGGGGAGAGAAGCTCACTGAGCTCCTTGTG
     {\tt AAGGCTTATGGAGATTTTGCATGGAGTAACCCCCTGCATCCAGATATCTTCCCAGGACTA}
     CGCAAGATAGAGGCAGAAATTGTGAGGATAGCTTGTTCCCTGTTCAATGGGGGACCAGAT
     TCGTGTGGATGTGTGACTTCTGGGGGAACAGAAAGCATACTGATGGCCTGCAAAGCATAT
     CGGGATCTGGCCTTTGAGAAGGGGGATCAAAACTCCAGAAATTGTGGCTCCCCAAAGTGCC
20
     {\tt CATGCTGCATTTAACAAAGCAGCCAGTTACTTTGGGATGAAGATTGTGCGGGTCCCATTG}
     ACGAAGATGATGGAGGTGGATGTGCGGGCAATGAGAAGAGCTATCTCCAGGAACACTGCC
     ATGCTCGTCTGTTCTACCCCACAGTTTCCTCATGGTGTAATAGATCCTGTCCCTGAAGTG
     GCCAAGCTGGCTGTCAAATACAAAATACCCCTTCATGTCGACGCTTGTCTGGGAGGCTTC
     \tt CTCATCGTCTTTATGGAGAAAGCAGGATACCCACTGGAGCACCCATTTGATTTCCGGGTG
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     AAAGGTGTAACCAGCATTTCAGCTGACACCCATAAGTATGGCTATGCCCCAAAAGGCTCA
     TCATTGGTGTTGTATAGTGACAAGAAGTACAGGAACTATCAGTTCTTCGTCGATACAGAT
     TGGCAGGGTGGCATCTATGCTTCCCCAACCATCGCAGGCTCACGGCCTGGTGGCATTAGC
     GCAGCTGCTTGGGCTGCCTTGATGCACTTCGGTGAGAACGGCTATGTTGAAGCTACCAAA
     {\tt CAGATCATCAAAACTGCTCGCTTCCTCAAGTCAGAACTGGAAAATATCAAAGGCATCTTT}
30
     \tt GTTTTTGGGAATCCCCAATTGTCAGTCATTGCTCTGGGATCCCGTGATTTTGACATCTAC
     \tt CGACTATCAAACCTGATGACTGCTAAGGGGTGGAACTTGAACCAGTTGCAGTTCCCACCC
     {\tt AGTATTCATTTCTGCATCACATTACTACACGCCCGGAAACGAGTAGCTATACAATTCCTA}
     AAGGACATTCGAGAATCTGTCACTCAAATCATGAAGAATCCTAAAGCGAAGACCACAGGA
     ATGGGTGCCATCTATGGCATGGCCCAGACAACTGTTGACAGGAATATGGTTGCAGAATTG
35
     TCCTCAGTCTTCTTGGACAGCTTGTACAGCACCGACACTGTCACCCAGGGCAGCCAGATG
     {\tt AATGGTTCTCCAAAACCCCACTGAACTTGGACCCTTTCTAGTCTCAAGGGGATTCCAGCC}
     {\tt TTCAGAAGGTTCTTGGGATATGGAACAGGCCGTGCACAACTTTGACATCTGGTCTTGCTC}
     CTCTTATCTTCCTTTTGTGGTTTTTAATTTGAAGACCCCAGAGAATTCCATTACATAATG
40
     ATTTTGCCCTTGTTATAAATGTTACCCTAGG
     >H_1.0.0_131819 Homo sapiens mRNA for putative cytoplasmatic protein (ORF1-FL21) as: gi-12214172///[gi|12214172|emb|AJ245876.1|HSA245876] [SEQ ID NO: 2]
     \tt CCCAAGAGTACGAAATTTCCGAAATGGTAGGCTACTGTGCTGCGAGGAGTGAGGGGTTGC
45
     TACCATCATTCATACCATCTCCCAACCCTCTTCAATGCCTCATCCAATGATATGAAGT
     TAAAACCAGAGCTATTTCTGACACAGCAATTTTTGAGCGGGCATTTGCCAAAATACGAAC
     AAGTTCACATCCTCCCAGTAGGAAGAATAGAGGAACCCTTCTGGCAAAATTTCAAGCATC
     TACAAGAGGAGGTTTTCCAGAAAATAAAGACACTGGCTCAGCTCTCAAAGGATGTTCAGG
     {\tt ATGTCATGTTCTACAGTATCCTGGCCATGCTCAGAGACAGAGGGGGCTCTACAGGACCTGA}
     {\tt TGAACATGCTGGAATTGGACAGCTCAGGTCATTTGGATGGCCCTGGTGGTGCCATCCTAA}
     {\tt AGAAACTTCAACAGGATTCAAACCATGCATGGTTTAACCCAAAGGACCCCATTCTTTATC}
     {\tt TCCTTGAAGCCATAATGGTGCTGAGTGACTTCCAACACGATTTGCTGGCCTGTTCCATGG}
     AGAAGAGGATCCTGCTTCAGCAACAGGAGCTGGTAAGGAGCATCCTGGAGCCAAACTTCA
     GATACCCCTGGAGCATTCCCTTCACCCTCAAACCTGAGCTCCTCGCCCCACTCCAGAGTG
55
     AGGGTTTGGCCATCACCTATGGCCTGCTGGAGGAGTGTGGCCTTAGGAYGGAGCTGGATA
     {\tt ACCCCAGGTCAACCTGGGATGTAGAAGCAAAGATGCCCCTGTCTGCCCTCTATGGGACTC}
     {\tt GATGCTGGCCCTCGTCCCAGTCTATGCTGTGAGTGTCCTTATGGGTGCAAGAGATAGGGC}
     {\tt TGTGCCTCTCTGCGTTTCCAGGTGGAGTAGAGACAGTAATGGGTAGAGACTTTAGGAAAT}
60
     >H_1.0.0_21316 Homo sapiens claudin 8 (CLDN8), mRNA cr: gi-21314655///
     [Human_jongleur_201102.9749.C1] [SEQ ID NO: 3]
65
     {\tt GTTCATTACTACAGGAAAAACTGTTCTCTTCTGTGGCACAGAGAACCCTGCTTCAAAGCA}
     {\tt GAAGTAGCAGTTCCGGAGTCCAGCTGGCTAAAACTCATCCCAGAGGATAATGGCAACCCA}
     \tt TGCCTTAGAAATCGCTGGGCTGTTTCTTGGTGGTGTTTGGAATGGTGGGCACAGTGGCTGT
     {\tt CACTGTCATGCCTCAGTGGAGAGTGTCGGCCTTCATTGAAAACAACATCGTGGTTTTTGA}
     70
     CAAAATCTATGATTCCCTGCTGGCTCTTTCTCCGGACCTACAGGCAGCCAGAGGACTGAT
```

 ${\tt GTGTGCTGCTTCCGTGATGTCCTTCTTGGCTTTCATGATGGCCATCCTTGGCATGAAATG}$ CACCAGGTGCACGGGGGACAATGAGAAGGTGAAGGCTCACATTCTGCTGACGGCTGGAAT  ${\tt CATCTTCATCATCACGGGCATGGTGGTGGTGCTCATCCCTGTGAGCTGGGTTGCCAATGCCAT}$  ${\tt CATCAGAGATTTCTATAACTCAATAGTGAATGTTGCCCAAAAACGTGAGCTTGGAGAAGC}$ 5  ${\tt TCTCTACTTAGGATGGACCACGGCACTGGTGCTGATTGTTGGAGGAGCTCTGTTCTGCTG}$  ${\tt CGTTTTTGTTGCAACGAAAAGAGCAGTAGCTACAGATACTCGATACCTTCCCATCGCAC}$ AACCCAAAAAAGTTATCACACCGGAAAGAAGTCACCGAGCGTCTACTCCAGAAGTCAGTA TGTGTAGTTGTGTATGTTTTTTAACTTTACTATAAAGCCATTTACTTCAAAATGACATT GCTAAAGACTGCATTATTTTACTACTGTAATTTCTCCACGACATAGCATTATGTACATAG 10  ${\tt ATGCCAGTCCATTACACTGAATAAATAGAACTCAACTATTGCTTTTCAGGGAAATCATGG}$ ATAGGGTTGAAGAAGGTTACTATTAATTGTTTAAAAACAGCTTAGGGATTAATGTCCTCC ATTTATAATGAAGATTAAAATGAAGGCTTTAATCAGCATTGTAAAGGAAATTGAATGGCT TTCTGATATGCTGTTTTTTAGCCTAGGAGTTAGAAATCCTAACTTCTTTATCCTCTTCTC 15 CCAGAGGCTTTTTTTTTTTTTTTTTTAAAATTAACATTTTTAAAAAGCAGATATTTTGTC AAGGGGCTTTGCATTCAAACTGCTTTTCCAGGGCTATACTCAGAAGAAAAGATAAAAGTGT  ${\tt AAGAATGATGCATTTTGACAAGAAATCATATATGTATGGATATATTTTAATAAGTATTTG}$  ${\tt AGTACAGACTTTGAGGTTTCATCAATATAAATAAAGAGCAGAAAAATATGTCTTGGTTT}$ 20  ${\tt TCATTTGCTTACCAAAAAAAAAAAAAAAAAAAAAATTGTCCTTTGAGAACTTCACCTGCT}$ TTGTACCATTTCTGTTTAGTTTTACTAAAATCTGTAAATACTGTATTTTTCTGTTTATTC ATGAATGTGTTCTATTTGCTTTATACATTTATATTAATAAATTGTACATTTTTCTAATTA 25 >M_1.0.0_17482 Mus musculus LB9 gene, partial sequence cr: gi-687696///
[Mouse_jongleur_201102.10974.C1] [SEQ ID NO: 4] GAATTCTAGAAGGAACTTACATGGACTGCTGGGTATACTATAAAAGCAGTTGGTGGCAAA GATAGGAGCATGGTTTGAACAATGGGTCTGGAGGACACAGGTGAAGCAGAGCGTGTACCC 30  ${\tt AGTTCTACAGACTGAACCAGAGCATTGCAGGGAACAGAGGAAAGGGCTTTCAGTGTGGTG}$ GGTATGCCTATGCTTTCCTGGAATAAAGAATACAGCCAGAGAAAGGGATTAGCTGGACTAG GGAGAGGGAGGAGGTTAGGAGTCTGCATGTAGATGTAGAGGAGGCGTGCAGGGAAGG CACAGAACCAAGAGTACAACGAGGATCAACAATGATGCCAATTAGGTTGGTGATGGAGGT 35 CAACCTGATCTACAGAGTTCCAGGACAGCCAGGGCTAGTCAGATAAACCATGTCTCTCAA AAATCAAAGATAGCAAGAGTCTACCAGAGGAGCAAGCTTGTGGGGTTGTGAGCATGCAGG AAAGCCTTGGAGCAATGTGTCAAAGGGCAAGCAAGAGGATGAAAGGTCAATGTGATGGCC ATGGCCATGGCCAGGAAGGATTACATCTACTTTGGTAGGACCAGGACTTTAGGATGTTAA 40 TAGTTTCTGAAGAGGGTACCACAATTTCTTAATTGCAGAGGAGGAAAGTGAAAGGGGTAA TAACAGTCACCCCGAAGACCCAGACTAAAGAAGACCTGAGTGATGCCAGGTATCTGAATA TGATAGCTAGGGACAAAGGGTTAAAAAGAATACCTTTCACATACAGACTGGGTCAGGGCA  ${\tt TGTTCTGTGTAAAAGATTATACTGGGAGAGGAATAAGTTGTGTCAAATAAAGGATAAAGA}$ 45 CTAGGAAACACTGAGGTGCTTGAGTGAGGAGATCTAATGGTCACCGCCAGAACGCTGGGG ACATGGAATAGGGGAACAAATGCCAGGGGGGACAGGGGGCCATCCACAGCAGTGATTCTT ACCCGGGGTGGGGGGTTCCACCCTAGGGGGGGTTGGGTACGGCCCCCGGGTA GCCTATCAGAACATCAGAGGGGAGCAGCAGTGACCTGCTCACAAACATTAACAACACCC  ${\tt TAGCTCAGAAGATGGTTCTGATAGGCTACTTGGGGGCCCATGCACCCCCGGTTGAGAATCA}$ 50  $\tt CTGGTGGAAGGGGTAGGGGGATGGAGAAGGCTACAGAGAAGGGAAGGGTGAGCAGATGGAG$ GAGGCATCAGAGTCATGACTGTCAGACTTGGGAGGAAAGGTCCTGCTGGTGCAGGGGGAT GACAGTGAGCAGCAACTGGATGCAGTGCAGAAGGGAGGAGGAAGGGTGAGAGCTGT GAGAGGGTTTCCTGTCAGGGGCAGGGAGGGCACTGCCAACTGTGCTTCCTGCTGAGGACT GAGGTGGGGCAGTGAGGCTGATAGAGATGGAGGATGCATAGAGGTGAAAGGTGTTTATAG 55 CTAGTTGTATGTAGGAATCAAAGGCAGGTAAAAATGGAGCCAGTGATGTAGGGAAGCTCA TGGAAGGACTAGACTGACGACTAGAAAGAAAATTCAGGGACTAGACTCCCCAGGGAG  $A {\tt GAGCTTCAGCAGCAGTTAAGACAGTGTGGAAGTTAGAACTTCTGGAGACAGGGTA}$  ${\tt GGCTATGCAGGCAGAATGCAAAACACAGGACAGGTGGAAGATCACGGTCAGAGTCAGAGG}$ TTCCCTGAGAGCTTCATCAGATGTGAATGGAAGGATGTGAAAAGAAGCAGCACAGGTCAC 60 TGGGAGCCATGGACACAGTTAGTTCTAGAAGGACCATGAAGTCTGGGCCAGAGAGACTGC TGGGTAGAGGGTGCAGACTTGGTACAATCAGTCGGATGCAGAGAGACCCAAGTCAGGTGA  ${\tt AGCAGTGGGTGTGGAGGACAGGTCAAGCTGGGGTGCTGACGCACAGGTCTGTAGAATACA}$ CCGGAGCACCCCAGAGGGCATCGGAAGAAGCTTCAGGTGTTGAGAGGGTGACTCTGCTTC TCTGAGCAGTGGAAGGTAGAGCAGGAGAAAGGGTTAACTGGGACCCAGGAGAAGTGTGAG 65 GGGCTCAGAGGAATGAACCACCAAGAAGGTAGACTCAGGCCTTAGAAAAGAGAAAATG AGATATTTAATTCAGCTGTAAAACTATGGTTCTGGCAAAAAAGAAAAACAGTGCCTATAA AATAACTGTGAGTTCTATGTCATTGATAACCATGGACAAATGTCTCAGACTGTGTTTTAA  ${\tt AAAAACATGATTTTCCCACAATGGTAGACCTAATCACCTAGACTTTTATAGCTAGGTGAA}$  ${\tt GTTAGAGAGCACATGGACTCAGTGGAGTTTGTCCTAAATGCAGAGGTTGACAGTGATGGG}$ 70 AGCAGTGAGTGGAAATCAGGAAGTGATCAGACAGGGCTAGAAAGACTTGGGAGTTCTCAT

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ACAAACATTTTGAATCAAACTGGACATACCACTAATGCAAAATGAAAAGGCCAAGAGAGG TTAAAACCAACAGAAGTTGTGGCTCACCCTTTATAATGGAGCCAGGGCAGGAAAGCAAAA GGCAGAATTCAGGGTTTCCAAAGTGGGAGGTGGTAACGTATCTCCAGGTTAAGCAAGGAA TGTTAGGCAGATTTTCAAAGACTAAGCAGAGTTCTCTTCATAAGAGAAGCAAGTCAGTAA  $\tt GTAACCCAGCCTTTATTTAGTGAAGAACAACTTCACTAATTTAGAAAACAGAAGAATAT$ >H_1.0.0_26338 Homo sapiens mRNA; cDNA DKFZp761J109 (from clone DKFZp761J109) cr: gi-21740184/// /cds=(0,429) /gb=AL834445 /gi=21740184 /ug=Hs.12600 /len=3299 [Human_jongleur_201102.12676.C1] [SEQ ID NO: 51 GTCCCTGCGGCCGCCAGAGGGAGGGTTAAGGCGCCTGGGCGCACAGCGAGCCGGCTGAGG GGGCTGTGGCGGCCGCGGCGGCGACATGGACAACGCGGGGAAGGAGCGTGAGGCAGTAC TTGGAGGAAACACAAGAGTAGAAGAGGCTTGTGAAATGTATACCTGAGCTGCAAATATGT TCAAGATGGCTAAAAATTGGAGTGCTGCAGGAAACGCATTTTGTCAGGCAGCCAAGCTCC ACATGCAGCTTCAGAGCAAACATGACTCTGCTACCAGCTTTGTGGATGCTGGAAATGCTT ACAAAAAGGCAGATCCCCAAGAGGCTATCAACTGCTTAAATGCAGCCATCGACATTTACA CAGACATGGGAAGGTTTACAATTGCAGCCAAGCACCACATTACTATTGCAGAGATCTATG AGACTGAACTTGTAGACATTGAGAAGGCTATTGCACATTATGAACAATCTGCTGATTATT  ${\tt ACAAAGGAGAAATCCAACAGCTCAGCAAACAAGTGTCTGCTGAAGGTGGCAGCATATG}$ CTGCCCAGCTTGAGCAGTACCAGAAAGCCATTGAGATCTATGAGCAGGTTGGGGCAAACA  ${\tt CAATGGATAATCCTTTGTTGAAATACAGTGCAAAGGATTACTTCTTCAAAGCTGCCCTCT}$ GCCACTTCATAGTAGACGAGTTGAATGCCAAGCTTGCTCTTGAGAAATATGAGGAAATGT TTCCAGCATTTACTGATTCAAGAGAATGTAAATTATTGAAAAAACTCCTAGAAGCTCATG  ${\tt AAGAACAGAACAGTGAAGCTTACACTGAAGCAGTGAAGGAATTTGACTCAATATCTCGCT}$ AAGGAGATGGAGACCTAAAATGAAATGTTTTTGTCTTTGTGGCATGCAGCTAACTCCTCT  ${\tt TTAGTTTTGTCTTAGGGTCAAGTGATCTTTATGGGATGCCTATTTAATGGCTTAATTTTG}$ AATGAATGAAGGAGAGGCTCCTGTTCATCTTGTGGTAATGATGGGTTGTTTCATGCTTAT CAGAACCCCCAGCGTTTTCTGAGAAGTACTTCAGAATCTCATTCCTCATATTTCATTGGT  ${\tt ATTTGTGGAGCCTATGTTTAATGTTGCCACGTGTTTTTATGTCCTTTTTGTTGGACTTGA}$  $\tt GTACTCAGCCCAGTTGTTCTCATAGATGCTTTGCATTTTCTCTGTGCTTTTGGCATCTGAA$ TATGTTCTTTAAATGT&FGTTTAGTTTAGGACAGTTACTAGGAATGAGTTTATAACTTCA  ${\tt TTAGAAATCATTTCTATTTTTGTTATCCTGTGATTATTTTGATGGTGCTAGTGACTAGTT}$ TCTTTGCTTTTTGTGTTGTTCCGTATGCTAACATGTGCATGGCAAAAATTTAGAATAGCC  ${\tt AGGGTCTGTAGGCATCACATTGTGAGGAAGGGAGCTTTCTGGAAGTACTTGCTTCATGTA}$ ATATCACAAGATCTGTTAGAAATGGAATTTTTCTCTTTTTCTGGAGATAGTTTTCACTTT TAGTTGGAGTGGAAATCCCTTTATATTTACATTGAAGTATTTTAATTGGCATAGCCTGCT CATTATTTCATGTTTATACACTTTCCCACGTTGAGGTGGTGTTCTTGTGCTGTGACTA  ${\tt AATTTTCCTGTTTATTGTACATGATGGGTTAGGTGGGGTGAATGTGGTACAGGAATGTCC}$  ${\tt TGTATGCCCAAGTGGGCAAGAACCCCAACTTGTTTCTCAGGGGACTTGATTGTTCTCTTA}$  ${\tt GCTGGTGGAATATGTTGGCTTATGTGTTTGAACTCTGTCGTGTTTAATTGGTTTATATAAA}$  ${\tt TATATGTATGCTATCTTGATTCATGAACTTGATCCTATTAATTTATATGCTGATATTGTA$  ${\tt CTTTAGACATACGCTTGTCTCCTGAATGTCCTCTGAATATTTATAGTTAAATGATTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACTATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACATACAT$ TTTGAAATGTGTTGCCAGACTTAACCCAGCAGACACTCTGACATCACGGAGCTTCACTGA  ${\tt TTTTCATTTTGGTGGCTCTCAACTGGAATTGGTAGTGTTTCCAGGCCAAGGGTCGACTG}$ GGAAGTGGGAAGGGCCAAGGACAGACTGTAGAGGATCCACATCAGGTGGCCACGAG  ${\tt GACTTGCAGGCTATAGTTATGGTGGTGACATGCATGAGGTGGGCTGGTAGAGCAGGAAGC}$ TCTGTGATGTCAGAGCATCTACTGGGACTACAGGTGCACTGTAGTCCCCACTACTGGGGG  ${\tt TCCAAGTTCTGAGATTCTTAAATGAGAGCTGGCTGTCTTCTAGAGGTAAGACCTGGAATG}$  ${\tt GAGTCCAGTTGGTACTTTTTCACTCCCTCTTAGAATCTCTTATGAAAAAAATGATCAGAGA}$ GAAAAGTGGGGTTTTGTTTCCCCACCTAATAATATATCCTACAACCAGCCAAATGCACTT TTGTGAAAATGGGGTGTGAGGAGTGGTTCTGCAGCTTGAGTCCTCTGGTTTTAAGTAGTT  ${\tt TGTTTCTACTTGTTTAAAGAATCTTCTGGTCTGACCACTTAAAGTAAAAACTACATGATT}$ TATTTTCGGGCAATTATGTTTAGCTTTCATCATTATACTCCAACAGACCCGTCTGAAGGG  ${\tt GTATTTTTTTAACAATAATGTTTGTAACATTTTGTTGTTGTCAATTAGAGGGTCACTTG}$ TATTTCACATGAAAAGAATCAAAGTAATTGTAATGGCTAGAAGAGACCTGCCAGAAGATT CCCATGGATGTAGGACAGTGCCATGTTTCAAGATGCCTGTGAGCTAGGTCTTCAAGATTT ATAGAATGTTACTTATGAACAAAATATAATTATTTATGGTACAATTCTTGTACTTTAGCA AATCTGGAGTTAGTTCATAGTCAAAGTCAGTTAATATTTCTTAGAGGAAAGTTTTGCTTT

 $\tt CCCTTGTGCATTTATTGTTTCTCCTGATTTTGTGGATTTAAATGTCCAAATGCAAACCTT$ 

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#### WO 03/058201 PCT/US02/41825

 ${\tt ATGAGCTATGACCAAGAGCAGGCTTCCTGCTCCATGGAGTTCCTGAGTTGCTCTGGGGCAG}$  ${\tt GGGATTACGTTATGAAAACTAACCATGTGTAACAATAAATCTACCTTAGCAG}$ >H_1.0.0_19427 Homo sapiens potassium voltage-gated channel, KQT-like subfamily, member 2 (KCNQ2), mRNA cr: gi-4758627/// [Human_jongleur_201102.8633.C1] [SEQ ID NO: 6] CCCCGCTGAGCCTGAGCCCGACCCGGGGGCGCCTCCCGCCAGGCACCATGGTGCAGAAGTC  ${\tt GCGCAACGGCGGCGTATACCCCGGCCCGAGCGGGGAGAAGAAGCTGAAGGTGGGCTTCGT}$ GGGGCTGGACCCCGGCGCCCGACTCCACCCGGGACGGGCGCTGCTGATCGCCGGCTC 10 GAAGCCCCCCAAGCGCAACGCCTTCTACCGCAAGCTGCAGAATTTCCTCTACAACGTGCT  ${\tt GGAGCGGCCGGCTGGGCGTTCATCTACCACGCCTACGTGTTCCTCCTGGTTTTCTC}$  ${\tt CCTCTACATCCTGGAAATCGTGACTATCGTGGTGTTTTGGCGTGGAGTACTTCGTGCGGAT}$ 15 GAAACCGTTCTGTGTGATTGACATCATGGTGCTCATCGCCTCCATTGCGGTGCTGGCCGC  $\tt CGGCTCCCAGGGCAACGTCTTTGCCACATCTGCGCTCCGGAGCCTGCGCTTCCTGCAGAT$  ${\tt TCTGCGGATGATCCGCATGGACCGGCGGGGGGGCACCTGGAAGCTGCTGGGCTCTGTGGT}$  $\tt CTATGCCCACAGCAAGGAGCTGGTCACTGCCTGGTACATCGGCTTCCTTTGTCTCATCCT$ GGCCTCGTTCCTGGTGTACTTGGCAGAGAGGGGGGGAGAACGACCACTTTGACACCTACGC 20 GGATGCACTCTGGTGGGGCCTGATCACGCTGACCACCATTGGCTACGGGGACAAGTACCC  $\tt CCAGACCTGGAACGGCAGGCTCCTTGCGGCAACCTTCACCCTCATCGGTGTCTCCTTCTT$ ATTCTACGCCACCAACCTCTCGCGCACAGACCTGCACTCCACGTGGCAGTACTACGAGCG 25  ${\tt AAGCCAGAAGGTCAGTTTGAAAGATCGTGTCTTCTCCAGCCCCGAGGCGTGGCTGCCAA}$  $\tt GGGGAAGGGGTCCCCGCAGGCCCAGACTGTGAGGCGGTCACCCAGCGCCGACCAGAGCCT$ CGAGGACAGCCCCAGCAAGGTGCCCAAGAGCTGGAGCTTCGGGGACCGCAGCCGGGCACG 30  $\tt CCCGGGCCTCAAAGTCAGCATCAGAGCCGTGTGTGTCATGCGGTTCCTGGTGTCCAAGCG$  ${\tt GAAGTTCAAGGAGAGCCTGCGGCCCTACGACGTGATGGACGTCATCGAGCAGTACTCAGC}$  $\tt CGGCCACCTGGACATGGTGCCGAATTAAGAGCCTGCAGTCCAGAGTGGACCAGATCGT$ 35  ${\tt GGGGCGGGGCCCAGCGATCACGGACAAGGACCGCACCAAGGGCCCGGCCGAGGCGGAGCT}$  ${\tt GCCCGAGGACCCCAGCATGATGGGACGGCTCGGGAAGGTGGAGAAGCAGGTCTTGTCCAT}$  $\tt GGAAGACAGCCGGGAGCATGTCGACAGGCACGGCTGCATTGTCAAGATCGTGCGCTCCAG$ 40 GCCCTCCACCTCCTGGCAGCCACAGAGCCACCCGCGCCAGGGCCACGGCACCTCCCCCGT  $\tt GGGGGACCACGGCTCCTGGTGCGCATCCCGCCGCCCGCCTGCCCACGAGCGGTCGCTGTC$ CGCCTACGGCGGGGCAACCGCGCCAGCATGGAGTTCCTGCGGCAGGAGGACACCCCGGG 45  ${\tt GGACCACGAGGAGCTTCCTTCAGCGGCTTCAGCATCTCCCAGTCCAAGGAGAAA}$  $\tt CCTGGATGCTCTCAACAGCTGCTACGCGGCCGTGGCGCCTTGTGCCAAAGTCAGGCCCTA$ ACGCTCGGCCACCGGCGAGGGTCCCTTTGGTGACGTGGGCTGGGCCCGGGCCCAGGAAGTG AGGCGGCGCTGGGCCAGTGGACCCGCCGCGCCCTCCTCAGCACGGTGCCTCCGAGGTT 50  ${\tt TTGAGGCGGGAACCCTCTGGGGCCCTTTTCTTACAGTAACTGAGTGTGGCGGGAAGGGTG}$  $\tt GGCCCTGGAGGGGCCCATGTGGGCTGAAGGATGGGGGGCTCCTGGCAGTGACCTTTTACAA$  ${\tt AAGTTATTTCCAACAGGGCACTCCCAGGCCCTGTCGCCATTGAGGTGCCTCCGCTGGGC}$  ${\tt TGTCTCCTCACCCCTGTGCTGGAGCCTGTCCCAAAAAGGTGCCAACTGGGAGGCCT}$  $\tt CGGAAGCCACTGTCCAGGCTCCCACTGCCTGTCTGTTCCCAAAGGCAGCGTGTGT$ 55  $\tt GGCCTCGGGCCCTGCGGTGGCATGAAGCATCCCTTCTGGTGTGGGCATCGCTACGTGTTT$ GTCCATGTCCCTTTGCCGTCCCGTCATGGGGCAGGGAATCCATAGCGGGGCCCACAGGCA  $\tt GGGGTATGAGTGCGTCCCACCCAACGCAGCACCAGCCCCGGCCACCGCTCCCCGTGTCCC$ CAGTTCCGTCTCAGCTACCTGGACTCCAGGACCCTGGAGAAGGGAGACCTGGCAGTGGAG 60 GGAGGCTGTGTGTGTCCCCCTGCAGGTGTGACCCCGCCTGCTCTTTCCTCCCCCGCC AGGTGTGGCCCCGCCTGCTCTTTCCTCCCCCACCAGTATGGCCCCACCTGCTCTTTCCTN  $\tt CCCCCCAAGGTGTGGCCCCACCTGTTCTTTCCTCCCCTGCCGAGGTGTGACCCCACCTG$ CCTGCTCTTTCCTCCCATGGGAGCCGCTGAGGCGTGCGCACCTGGGCACAGGTTGGGGCT 65 CTGCAGGATGAGGAAGACAGGCCAATCCCTTCCCTCCCAGAAGCTGGCCGCCCAGCAGGA GGGACTGAGGCCAGACTCATGTCCAGCAAGGAACGTGTGGTGTGTCCCCTGGGAAGTCTC TGGGCCCTGGGAAGAGGGAAGGTGCACGTCCTGGGATGGTTGCGGGGCCCTGTTTTGGGA GACAAAGGGGTAGAGGGTCTGTCTTGNGCCCCCCAGACTCTAGCCCGAGCAGTGCAGCC  $\verb|ACCTACTGCCCCACCTCAGAGAAGTGCAGCGGGAAGGAGGTGGTGCGGCGCTG| \\$ 

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      >H_1.0.0_58926 Homo sapiens cDNA FLJ34227 fis, clone FCBBF3025098 si: gi-21749942/// [Human_jongleur_201102.cl.16700.singlet] [SEQ ID NO: 14]
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    >H_1.0.0_52731 Human RASF-A PLA2 gene encoding synovial phospholipase, exons 2 through 5 si: gi-190885/// [Human_jongleur_201102.cl.9676.singlet] [SEQ ID NO: 41]
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      >H 1.0.0 23593 Highly similar to NEP HUMAN Neprilysin (Neutral endopeptidase) (NEP) (Enkephalinase)
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     >H_1.0.0_37314 Homo sapiens cDNA FLJ38286 fis, clone FCBBF3008153, highly similar to ALPHA-AMYLASE
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     {\tt GTGGGAAAGATACCAACCAGTTAGCTATAAATTATGCACAAGATCTGGAAATGAAGATGA}
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     >H_1.0.0_71201 Moderately similar to TRY1_HUMAN Trypsin I precursor (Cationic trypsinogen)
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     {\tt CACCTCTGCTATGTAACTGTCTTGTTAAAAGGGTGTTTTCTCCTAATTTCTGATATATTA}
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     TTAGACTGATGATACTAACAGTTGATGAAATGACATATAATTTATATATGAAAGCTTACG
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     GTCTCAATGTTTTCTTACGCCTCATTTTAATTTATAATGAAGGTAAAATTAAAATGTAT
     TTTACCACGTTTCTTTTCATTACTTTTATCTGTGAGCTCTGACACATCTGAAAAAGTAAT
     \tt CTGATGTGCAAATTATAATTTAAATATGTTAATTTTTTTGCTTCTTAAATTTGCTTTTCA
15
     TCATTAAAATGTCAAGTTCAAGTGATATGTGCCTAATATCACTTGGATGTTGGTGGGTTT
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     ATGTTTGAACAGGAAGTAGGAACATGCATACACGAAGAAATGCTAACGGAAGGATTTGTT
     {\tt ATGTTTAGGATCTTCCCTTGGAAACTAAAAATAGAATATTAATGACATTACTGTTTGTAG
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     >H_1.0.0_140359 Homo sapiens similar to Gliacolin (LOC222404), mRNA as: gi-20473752///
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     {\tt GCTAGGGGAAGGGGGGGGGGGAAGAAA}
     {\tt GCTAGAGCTGGAACAACTATGATTTAAAAAAAATAATAATCATGTTGGGTTTTGCAAACCA}
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[Mouse_jongleur_201102.3863.C1] [SEQ ID NO: 151]
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     AGGACGTGAGTTCCCCACGCACCGCTCGGTGCTGGCCGCCTGCAGCCAGTACTTCAAGAA
     GCTGTTCACGTCGGGAGCTGTAGTGGACCAGCAGAACGTGTACGAGATCGACTTCGTGAG
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     GGCCAATGTGGGCGACATCCTGAGTGCAGCACGGCTGCTGGAGATCCCGGCCGTGAGCCA
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     \tt CGCTGTGGCCGCAGGCGACTGCAATGGCTTGGACTTCTATGGCCCAGGGCCCCCGGCTGA
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     \tt CTCTGAGGCCGCTCCAGAGCCGGGCGACTCCCCGGGCTTCCTGTCAGGCGCTGCAGAGGG
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     {\tt GATGTCATCGGTGGGCCGGGCCGGGGACAGTGATGAGGAGTCGCGAACCGACGACAAGGG}
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     \tt CTGGTCACAGAAGGGTGAGAAGAAAATCCGGGCCCAAGGCCTTCCAGAAGTGTCCCATCTG
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40
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      TTCAAATCATAAAATTATTTTATCTCCTCTCTACCCGTGTAAACCCCCATTCCCATTATC
      ACCCCAATTAAAATGGCTCCTTCCACTT
      >H_1.0.0_38087 Homo sapiens similar to RNA polymerase I transcription factor RRN3 (LOC94431), mRNA
65
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55
     {\tt AGCCCAGGGTCCCCCACAAGCCTCAAGGTAGCCTCAGGTTTCTCTAATTTCCTCCACTCC}
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70
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     of ras [Mus musculus] [M.musculus] [Human_jongleur_201102.16424.C1] [SEQ ID NO: 158]
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15
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     \tt CCTTTGGGTGGAACACAGTCAAGATTGACATGAGTGCAGCCAGGAGAGATCCACCTCCAA
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     {\tt CACTGTTAAAGTGAGATCACTAAGTCTTCATTACTTGAAAATCCACATGTAGTACCTGAG}
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 ${\tt ATGACTTCAGAAATGTTTATTACCGTTTTGAAACAGAAGCCATTCTGCATATGCCTTTGA}$ 

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     {\tt TTTAGTTCCGTCAATT} \\ \overline{\textbf{T}}\\ \textbf{G}\\ \textbf{ATCTTCCTGGACACTGTTTGTTGGTGGTGGCTTCCAGATGCT}
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CCTGTTAA

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     \hbox{\tt AATTCTGCAGATTGGTTCCATTTCACCGGCTCTCAAGCCCCAACAAGAAGCTCTGGAACA}
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    \verb|CCCATTGTAGGGAGATTTCGTCTCGCATCCGAGCAGCTCTGGGGCAAATGCGTGGGAAGA| \\
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     CCTTTCTGCCCACAGAAGCTCAAGCCCAGGTGTCGCCGCCACCCCCTTACCCTGCACCCC
     AGGAGCTCACCCAGCCCCTCCTGCAGCAGCCCCCGCGCCCCTGAGGCCCCTGCCCAGCAGC
30
     CCCAGGCAGCCTCCTCACTGCCACAGTCAGACTTTCAGCTTCTCCCGGCCCAGGGCTCAT
     \tt CTTTGACCAACTTCTTCCCAGATGTGGGTTTTGACCAGCAGTCCATGAGGCCAGGCCCTG
     \verb|CCTTTCCTCAACAGGTGCCTCTGGTGCAACAAGGTTCCCGAGAACTGCAGGACTCTTTTC|\\
     ATTTGAGACCAAGCCCGTATTCCAACTGCGGGAGTCTCTCGAACACCATCCTGCCAGACT
     35
     TGAACGTGGACACTCCATTTCCACTGGAAGAGGGGCTGCAGATTGAACCCCTGAGCCTGG
     ACGGACTCAACATGTTAAGTGACTCCAGCATGGGCCTGCTGGACCCCTCTGTTGAAGAGA
     \tt CGTTTCGAGCTGACAGACTGTGAACAGAAGGCAGTGGAACAGAAGAATGTTTTTCTGCAA
     {\tt CAGCCAAAATAGAATGGAATAGAATGAAGCCAGCTGATACCACGGGCTTTCGTTATCTTG}
     {\tt ACATAGAAGGAAGCAATGCCACGGCTCCAGGGTTTCAGATGAGATCCCATCTCAGACACT}
40
     GTGGCTTCCTCCAGATCACACAGCTTTGTACTGCCTCTCCCGCCTGTGGCCAAAGTCGTG
     TTGCAGCAGGCAGGCTGCTTGGAGCTTCCCATGAACTGGAAAGCTCACCTCCACTGCATC
     TTTTTACTGGCCATCCAGTCAGCCGATGTGTAAGAGTAGGAAATACTGTGTCACTGGAGG
     \tt CCCGGAGTGGGAGGCTCGGCCTGGGGCGCGCGCACCGGAGAGGGCACCTCGATGCCTGCT
     \tt CTGACCTGACCCAGAGGGCGAGGCCCTCCAGCGGGGGACATTCCCAGGCTGAGTGGACCC
45
     {\tt CACGGCTCTCTCCCACGCCTGGATTACGACATGAAGTTTTTACCACAAGCCCGAGGGCAG}
     GCTTGAGTTAGGCAGACTGAAGGCTAATTTTCATTTTCTCCCAGCTGGTTTCTGCTGCTT
     {\tt CAGAAAAGTACACCTTTTCCTTATGGACCAGAGGAAGAGGAAGACCATTTTATCAGTCAC}
     TGAAAAGAGTCCCCTGGCACTGATGAGCCTGAAGAGAACTGTGCTCCTCCTCGGGGGGCTG
     GGGAAGGAAGACAGGGACTGCAGGTGTCTCATACTCAGTGGCCTCCAGACAAACTCCAGA
     CAAGCACAGACCTCCCCACTAAGAGCAGCCAGAGGGAGCTGGTGAGGCCCTAACCCCACC
     {\tt CACCGAGCAACTGAGCTTCCCCATCCCTCCCCAGAGCTGTGTCTCTGTGGGCTGGGAGTC}
     {\tt TAATGTCACCCCCTAGACCGTAAGCTCCTTGAGGGCAGGGACAGTGCCTTATCATTGTT}
     55
     \tt CTGTAGCTATCCCCTTCCCTGCCAGATCTTCTCAGAGCTTTAGCTTTTCTAGCACTCGTG
     CCTATGGTGAAGCATGCACTTTAATATGCTTTTAACACTAGGTGACCAAATCACAGTGAA
     60
     {\tt GGAAGATCTTCCTTCAGATCCACGTTTGGCTCTAAATTGCTTCAAGTAGAGATTCATT}
     {\tt CTTTGAGGTTGAAAAAATAGTTTATAGTAAAACGAAGGCCTAATTCATGGAAGCATCATT}
     CTAGGCTGTGAGAGGACAGGTGGAGAGGGGGAGACCCTGAAGGAGAGACGGAAGATGC
65
     CAGGACCTTTGCTTGGACAGCCATTGCCCTTCCAGGAGACCCTGGAGTGTACTGAGGGTT
     GCTGGACTGTTCCACCCAGAGGAGCAAGGCTGTACAATGAGGGTCTGAATCTGGCACACC
     TGTCCCTTATGTAAAAGGAGTCGTGGTCACAAGACCCTGGGCTGGTTAGCCTCTCCCGAC
     \tt CTCATTCCATTTCTATCTTCTGACCTTGCCTCTCATCTTTAAAATAACCCTCATGGGGTG
     CCCCTCCACCTTCCTCTGGAATCCAAGTATTCCTGTTTCACATTTGCCCCAAATCTTTGC
70
     TGTGGAATTGGGAAATCAAACCAGAGTCCTCCTCGCCTGATTTCCAGCTCAGGAAGGGCC
     TGCTGGCCTGCCCTGTTCCCAGTTACACTTTCAGATCCCTTTGTGCTCAAGATCTCAGAG
```

 ${\tt GGGGTGGCTTTTGTTAAAGAGCCTTCAGTCGCAATGCTACCCAGCACCCCATGTGCCAA}$  ${\tt AAGAAACCAGCTCCTGTGTCAAAGGGCCTTCCAAACCTGATCTCACTCTCAACAGGCGATG}$ GTGCTGATGTTTCAAGAATTGTGTTTTTTATAAAACAGAGGTCTCAGCATAGTCACTCTTC ACATAGTGCCTTACCCATGGGTATCGTCATATCCGGGTCCCAGTTCAGTTTGTCTGCACA GCAGCCACCCTGCCTGGCAACAGAGCCCCAAGACCTACACAGTGAACCCTACTGCCCCA AAGGCGTTCTCCAGGTGACTTGTGAAAACAGACCTCCGGGGAAGTGATTTATTGGGGGTG TCCGATCTTTTCTTGTGAAAGGTTTTGGGCATCGTACAACCCACTCTGCCTAGAAGGTGT 10 GGCCTTTGTAACAAAACCAGTTGTGGTCCTCAGCATTTGAAGCAGCTGCATACTTCAGAG  ${\tt TAAACTATTTTCATTATTTAGTTTTGTCACAAGAAATCGACCATTGTACTACTCTCACT$ ATGGTTGTGGGTTTTAGGACATAGGGGGGTTAGGAGAGGGGTTTCTTGATCATGTCATGA ATTCTCCTTTGTCCTGTTTCTCCTGTTTCATTTCTCCTCCGCCTGCTGTATATTACCTGA 15 GCTGGTGTTGTATCTTCAAGTCCATATGCGTATTTGCAGACCTTTCCTGTTCCCACTCTT GGACCATCCCAGCAACTAATCAGACTTCCTGCCAGTGTCCTAACCCCCAGGGCACCCTGT TCAACCATATTTAAAAATTGGAATTTGTATAAAGTTGCTTCCAAGTTTTATAATGCATCA  ${\tt TTTTACATCTTTTGTAATTAAAAGCATCACAATGAGGTTGTCTCTGC}$ 20 >M 1.0.0 5527 mp88b04.y1 Mus musculus cDNA, 5' end cr: gi-4483835/// /clone=IMAGE:576271 /clone_end=5' /gb=AI551472 /gi=4483835 /ug=Mm.229047 /len=404 [Mouse_jongleur_201102.2681.C2] [SEQ TCCAGAGCGTCGTAATTCCTGGGCAGGGCTTCTTGGACTTAGCTAAGGCTCCACTCAGGA 25  ${\tt TGTGTCAGCAAACCTTTATTGTGGCAGAGACAGAATCAAAGTGCACAGGAGGGGTGGGGT}$  ${\tt TTGGTGAGCCTGTGGACAGCCCTCGGAGTTCAGAGAGCTGAGTTCATGCCTGGCCTTCCT}$  ${\tt CAGGATCTTTCTTGGTCTCCTTCTCCAGCTCAAGCTGCTGCTTCTCCTGCTGACTGCACCC}$  ${\tt TAGGGTTGGGGAATACTAGGCTGGAGGATTGCTATGAGTTGCAGTAGGGTAGCCGTGGGC}$ 30  ${\tt CAAAGTATGTAAGCTCTGAAGTCAATCATCAGAGTCCATGATAAAATGGCTGGAGTGAAC}$ ACTGCCCACAGTTGTCCTCTGACATCCACACACATCTTATGACAAGCTTGTGTACACACA  ${\tt ACTTTCTAAAGGGGGGAAGCACAGAGGTTGGCCAGAAGGGCAGGATATGTCAGCACGCTG}$  ${\tt TATCTTGCATCTACCATGGCTCCCCTGCAGATCCAGGACTGTTGTTCTCAGCCTTCCTAG}$ 35 AGATGGGAACCTTTTCCACGGTTTCTTGTGTTGTGTGACCCCCAACCATGTTTCCATTG CTCCTTCATAACTGTGATTAAGCTACTGTTATAAATCTGAAGTATATGACATGCAGGACA  ${\tt TCTGACATACAGACTGAGACCCACCCTTGAGCACATCCACTAGTCTAGGGTAAGTTGTCC}$  $\tt CTCATCTCTGAGCTCTGGTTTATTCACCCCATTGAATGTGAACAGAATACCGCAAACGGG$ 40 AGGCATTTTCGGAACACTTGTGTCCACAGGTGCAGAGTGAGACTACTGGCCCCAATGGTT GGGGGGGGGGGGGTGAGAAGTCATGCTGTGAAATGGCTGCTGGCATGTCTGTATGGCAG GCCCTCCCCGGGGAAGATCCTGGGGGTGGTGATGCCAGGAAAGGCTCAGGTGACCAGA GATTGGAGTCACAAACTATTGTGTATCTCAGACTACATGCAAGCTGATTGGTTGATCCCA  $\tt CGGCTTTACCAGGGTGAAAGCCAAAGTTTATTTGGCCTCTCCCTCAGCACAAGGTTAGAC$ 45 AGAACATCAAGAGGTTTCCGCATGGGTCATCCCCGCCTGTGATTGGGCTTGTTGGAGTTG  $\tt GGTGGCATGGAAACTTCAATCACGACTCCTGCTTCGATAGGTAGTGAATATGAAGGGAGA$  ${\tt AACCTGGCACCCTGGCACTGGCTGTTCCCTAAGTGACCCTCCTGATCTTCCTCTTATCCT}$ CCACAAGCTTTCCAGGACCTCCTACTTAACTTCACCTCCCTGAGGCTCACTGCCCATCTA GGATCTCTGTGATCTCAGCTCTCACAGTAGGCAGGAGAGTTATTAATGGCAGGATACCTG 50  $\tt CCTTGCTGAGCTGCCTTAACCGGAAGCTTGCCCTCTCTAGCCGCTAGGTCACTGACAATG$  $\tt GGAGCACTGCTGGGGTGGTATCATACAGCCTCCTCATTTACCTTTTTCCAGTCGACAAAT$ ATGATTCTGATTCATCCATGCCCACGTGTGTGACAGCCTTCTGGAATACTTCCCGCAGC  ${\tt TCCGGGGTGATATCTGGCCTTTTTGCTGCAATGGAGAAGGGATCCAGGATTGTGCTGGCT}$ AAGGCCAGTGGGGCTTGGGACGAGGTCTGGGAGGGCCCTACCGTTGAGGTACAGTCTCCG 55 TTTCTTCTCATTCTTCAGGTCAAAGGCAAGCATGAAGGCCCCATGTTTCTTCAGGACTAT CATTTGTGCAATGGTTTTTCCTCCTTCTTCTGCAGGATGAAGGGCTTTGTGAGTCACTAG  ${\tt AATGATGCTGTGGTCCCCATCCCCAAGGGAAGGAAGCACATAGCTATGGACAAGTGCCTG}$  ${\tt AGGCTCCCTGTGGCTGCCATGTGTTCAGCCTCTGTTGGATCGCAGCCTCACTTCTCATTC}$ 60  $\tt TTTATAAGTATGGTCTTGCTGGGGGCCTTGGAAAGGGCCCTTGGTGGTGTGCATAGTTAA$ TCTGGCCCACCAGTATTCAGTTGCCCTCCCCCCATGCTGTCCCTGGTGACCTGGGGATTT GGCTGAAGTCACTGGTTTCCCCAAACCATGGGTTTCCCCTCTGAGCTCACAAAAGATCATA  $A {\tt GAATGGTCAAAGCAAGTCTGTCCTGGCAGCTGGACTCCAGTTTGAAATCTACGTCCACT}$ 65 TACAAGCCTCAGAGAGTGACTTCACAGACCTAACTCCCCTGTTCTGCTGCCCCCTTGTAC CCTTGCAATACGCTCCCAGAAAGCCGTGAGTTCCAACCCTTACCATACTTGGAGAGGGTC CCATTCTCTCTGGATTCCTAGATGAGTGGAGTTATAGACACAGTGGTCATCTCTAGAA AGCAAAGAGACAGAGGACAACTGATGGAGAGGTGATCTGACTAAACTGGGGTGGGGAGTG 70 GCAGATCCAGTTTGCTCAGGTCTCTAGGCATCTGGGAGTGGAGGCCAGGGCCAGGGTGGG CTGGCTGTTACAAGAACTCACATGGTGTGATACTCTCGAAGCTCCATCGTGTCATTTATC

AAGTTGGGGGTAAGGTTAAAAAATACCATCTGCGTCTTTTGAATTTCCTGCCGGTAATCA  $\tt GGGTTTAGGACAGCCGCACCAATGAAAAACCATTTGTCAGAGAGCTGGGGAGAAGCAGGC$ ACACAGATGAGTAGGGCTTGTAGTATGAACATTGCACTCAGCCGTGCTGTGGGGCAAGCA  ${\tt AGCAATGGCTTCTGAACCATACATGGGAAGACTGAAGCTCAAATGGGCAACTCAAAAATC}$  ${\tt AGCCATCCTACTGCTCTGTCCCCTGCTGAGAGACCTCAGAGTGATGCTTCTGGGTTTGGA}$ GGCAGGGGTGCCACCAGGTCTCCAGGAGAGGAAAGGGCAGTACCAGGAGCCCAGAGATG AGCACAGACATCAGGGAAGGGAAAGCCCAGAGGAAAGAGTAGCCTCCTTAAGTGCTCACG TCCAAGTCCTGGGCAGGCACTTACCCAGCTCAGGGTCTCATTGGTGATAGGGTCGCCTAT  $\tt GGTGATGTTGACATGTTCTGGGTTCTGAGCTTCCAACAGCGGCAGGAGGCTCACCATGAC$ 10 AAGAATCATGTGCAGTGCCATGCTTAGGACACTCAGAGGCACCAGGGCTTGGAAGAGATA ACTGGTGGATGGAGGGTACAGTGGCTTTTATAATAGATGTGGCGAGGGCATGGGACTGCA GCAGGGCCTCTAGAGCCCTGGCACATTCTCCCCAGCACTTGGGAAATGTCTTGCGCAAAA TGTTCTCTCAAGCCAGCTTTGTGCAGCTCCCTCCCAGCCGGCCCTGACACAGACTCCTGC  $\tt CCTACACCAGAGTGGCTGATTCATGGTCAAGGTGGATACTGGGCTAGCCTGATAATACTT$ 15 AGATCCCAGTCATGGGTCCCATACCTGTCTTATCCCATGAAGTGCCTAGCAGGAGTGAGA  $\tt CCTATTCGTTTATCACCCTCCAAGGGGGGCTATGAAGGGGACCCTGGTCAGGGTTCATAGT$  ${\tt GAACTTAGAAGACACTTAGGGGCTCAAGTTAAGGGCCAAGGACAAAGATGGATTAGTTTC}$  ${\tt CAAAGGAGTGTGATGTTCCTGGGGACCCCTATACAGCCTAGAGGCAGCCGAATGCCCAAA}$ AAAGAGGGGTGAATCTGAGTTGAAAATGTAGTTCAGCAAAGCTCCCAGTATTTACAGCAG 20 GAAAGGATCTGTCTAGAATAGTGTGTGCCCAATCCAGGGTCTGTGCACAGGATC >M 1.0.0 18174 Mus musculus, Similar to hydroxysteroid 17-beta dehydrogenase 11, clone MGC:30360 IMAGE:5132342, mRNA, complete cds cr: gi-18043883////cds=(49,963)/gb=BC019427/gi=18043883/ug=Mm.27300/len=1719[Mouse_jongleur_201102.11619.C1][SEQ ID NO: 204]

GGCTCTCTGTGGAGCTCTGAGCAGAGGTGTCTGTTGTGAGAACAGAGCCATGAACCTCAT 25  $\tt CCTGGAATTTCTCCTTCTGGTGGGCGTCATCATCTACTCCTACCTGGAGTCACTGGTAAA$ GTTCTTCATTCCCCGGAGAAGGAAATCTGTGACCGGGCAGACCGTTCTCATCACGGGGGC CGGACACGGAATAGGCAGGCTGACTGCATATGAATTTGCAAAGCAGAAAAGCAGACTGGT  ${\tt TCTATGGGATATCAATAAGCGTGGTGTTGAGGAAACCGCGGACAAATGCAGGAAACTGGG}$ GGCCGTCGTGCACGTGTTTGTGGTGGACTGCAGCAACCGGGCCGAGATTTACAACTCTGT GGATCAGGTAAAGAGAGAAGTAGGTGATGTCGAGATCGTGGTAAACAACGCCGGGGCGAT ATATCCAGCAGACCTTCTTAGTGCCAAGGACGAGGAGATCACCAAGACCTTTGAGGTCAA  ${\tt TATCCTCGGACATTTTTGGATCATAAAAGCACTCCTTCCATCGATGCTGAGAAGAAACTC}$  ${\tt TGGCCACATTGTCACAGTGGCTTCGGTGTGCGGCCACGGAGTGATTCCTTATCTCATCCC}$ TTATTGCTCCAGCAAGTTTGCTGCTGTGGGCTTCCACCGAGCACTGACCGCAGAACTGGA 35  ${\tt CACCTTGGGGAAAACCGGTATCAAAACCTCGTGTCTCTGCCCTGTGTTCGTGAATACTGG}$ CTTCACCAAAAACCCGAGTACAAGGTTATGGCCTGTATTAGAGCCGGAAGAAGTTGCAAG GAGTCTGATCAATGGAATACTTACCAACAAGAAAATGATTTTCGTTCCATCCTATATCAA TATTTTCTGATCCTGGAAAAAGGACCTGGATTCAGTTCCAAGCACCCACATGGTGGTTC  ${\tt TCAACAGCCTGTTACTCCAATCCCAGGGGATTTGACACCCTCTTCAGACTTTCTCAAACA}$ 40  ${\tt CTAGGCACTCGTGGGGTACGCATACGTCATTCAGGCAAGCCCTCATACACATAAAATAGA}$ ATAAGCACATATTTTAAATGTGCTACTATTACTGATGTTTTAAGCCAGTTAAATTATGTG  ${\tt ATTTCTTAACAGCAATAAAATATTGTAGATAATGTCATCATGCTAGCTGCATCACTCTG}$  ${\tt ACTGTATAAACCCAAGAGAATTTCACTCCATCTCCTTCTGCCAAAATATTTACAACACTT}$  ${\tt AAGAAATAAGGGCTGATTTTTTTTTTTTAACATAAAATATATGAGACAGTTGTATCCT}$ 45 GTCAGCTAAAAATGTTTTCTCTGGCCTGTGAGTTGGCTCAGTAGATGAAGACACTTGCTG CCAAG >M_1.0.0_13590 AV375328 Mus musculus cDNA, 3' end cr: gi-15412285/// /clone=9130023H10 /clone_end=3' /gb=AV375328 /gi=15412285 /ug=Mm.27632 /len=641 [Mouse_jongleur_201102.8131.C1] [SEQ ID NO: 205] TCATTCTTTATCTCCTTCAAGCGCTGATGGTGCTCAGTGATAGCCAACTCAATCTGCTGG 50 CCCGGTCTGTGGAGATGCGGCTCCTCCCGCACCAAGTAGAGCTGGTAACGAGCATCCTAC AGCCAAACTTCAAGTATCCCTGGAACATTCCCTTCACAGTCCAGCCTCAGCTTCTTGCCC CACTCCAGGGTGAGGGCTTGGCCATTACTTATGAATTGCTGGAGGAGTGTGGTCTGAAGA  ${\tt TGGAGCTGAATAATCCCAGGTCAACTTGGGATTTGGAAGCCAAGATGCCCTTGTCTGCTC}$ 55 AAGATGCTATGGCTCCTTTTTTTTTTTTTTTTTACGTATTATTGATTCACAATTATACAAA TAATATACTTGGATCAGATTCTACCTACCCTCCATTGTTTCTTTTAATCCACCCCTTCCA ACGTTTAATTAGGGTTGTTTGCATAAGTGTGTGATTATTCATTTGAGCAAGGGTAGCCTT 60  $\verb|CCATTGCCACTTTGAGTTTATGGGTTTAGCTATTCCATATCCTTACCACTTTTAGGAAAC| \\$ TCTCTATAT >H_1.0.0_58925 Homo sapiens cDNA FLJ34661 fis, clone KIDNE2018989, weakly similar to Homo sapiens 65 mRNA for KARP-1-binding protein 2 (KAB2) si: gi-21750471/// [Human_jongleur_201102.cl.16699.singlet] [SEQ ID NO: 206] GGATGCCAGCTGAGTGCTGGCCGTGGGCCCCTGGTCCTGGCACGAGAGGAGCCTCTGTTC 70 GGGCAGGCCCGCAGTCCCCTGGTGTGGGTAGAACACCCTGACCGTCTCTGGCGTGGAGA GGGCCTTCCATCCCCCAGGGTGTGCCTCAGGGCCCCGAAGCCCAGGCTGGCCCTCCCCAC

 ${\tt TCTTCCTGTACTCCTGGCTCATGCCCCTGGTGCCTTTGGGTCCCCACGCCATCTGCCCAT}$  $\tt GGGCCTGAGGCCTAGGCCTGGGGAGGGCTGTCCCATGGATCTCTGCCGCAGTACTGTGG$  $\tt CTCAGTGAAGGGTGCCAAGTACACCTGTGCCCTCCGCTGGTAGCTGCTCTAACACCCTTC$ TGAGCCCGCAGGCCCCATGACCAGGGAGGGAGGGAGGGCTGTGAGCAGAGTCCTGCCCTG  $\tt CCCCCAGATGTCCATGGGCACAGCAGCGGGGATGGTCCTCTGTGGCCACCAGAGCTGG$  ${\tt AGGCAGCTGAGCTGTCCTGCGAGTGGATTGGTTTGAGGTCAAGGTGCTGCTACTGCC}$ TTCTGCCCTGTGCACCCACCTACCCACCCACGATCCCAGTGGAGCCTCTTTCCTGACTCC  ${\tt CAGCATCCTCCCACAGCCCCACCCCAACTGCTGGCTGCACTGGGCAGGCCTTGCGTATGG}$ 10  $\tt CTGGAGGCTGAGGCTTCGCTGGAGGAGGGTTGGGGGCGGGGCCGAGGGTCACCCCT$ GCTTGGTGGAGCCTGCTCCCTACCCGACGTGGTGCACTGGTGGTGTTTTGACCCAAGCA  $\tt TGCGGCTCGCCATCATGCCCCGCTACAGTGCAGGAGCGCAGCTGCTGCCAGGCTTAGAGC$ AGGGGCTGGTGAGGAGCCCAGGACTCTGCCCAGGAGGGCGGAACCTGAAGCTTTGGGTCT  $\tt CCTTGCCTGTGTGGTCCAGCCTGGGCCGCAGCAGGTCCTGGTGGGGAGGTTTACTC$ 15  $\tt TGTTTTGGGGTCTGTCAGGCACTGCTTTTCCACCACCTGTAAGGGGGTTTCCCACCTAAT$  ${\tt CAGCTGCAGACTGCTCCCGGGTTGCAGCCACTGGCCTGGGAGCACCAGGCCGCCTTCCCCC}$  $\tt GCATGTGCCCTGGGCTGGTGGGGGCCTTGTGGTCCCTGGAGCTCAGCAGCTGTTGATGTT$  ${\tt TCAATGAAGGGCTACTGGGGGGGGCACCAGCCTCGACGCTGCCAGCCCTGCAGCACTG}$ 20  ${\tt AGCCCTCTCCCAGAGGGACCCTGGGACTGCCACAGGGTGCTGAGTGCTGCTTTGTTCTGT}$ TCTTGCTTCTAAAACCAATTCACTCACCAAGACACGAGGCGCCGGCAGCAGGGCTCGGAT  ${\tt TCCCACACCTCAACAGCCACTCAGACCCCGAGGGCTGGCAGCTCCAGCCGGGCTCGTTCC}$  $\tt CGGGCCCCCGGGCCCCGGGACACGGACGACGATGAGGAGGAGCCTGACCCTTATGGTTTC$ 25 ATCGTGCAGACGGCAGAGATTGCGGAGATTGCCAGGCTGAGCCAGACGCTGGTGAAGGAC  $\tt GTGGCCATCCTAGCCCAGGAGATCCACGATGTGGCTGGGGACGGTGACACACTGGGCTCC$ TCGGAGCCTGCCCACAGCGCCTCCCTCAGCAACATGCCCAGCACCCCCGCCTCGACCATC TCTGCCCGGGAGGAGCTGGTGCAGCGCATCCCCGAGGCCAGCCTCAACTTCCAGAAGGTG CCGCCCGGCTCGCTGAACTCTCGGGACTTTGACCAGAACATGAACGACAGCTGTGAGGAC 30 GCCCTGGCCAACAAGACGCGGCCTCGGAACCGAGAGGAGGTGATCTTCGATAACCTGATG  $\tt CTGAACCCGGTGTCCCAGCTGTCGCAGGCCATCCGTGAGGACACAGAGCACCTTGCCGAG$  ${\tt AAGATGAAGATCCTCTTTCAGAACACAGGGAGAGCTTGGGAGGACCTGGAAGCCAGGATC}$ AACGCCGAGAACGAGGTGCCCATCCTGAAGACATCTAACAAGGAAATCAGCTCCATCCTG  ${\tt AAGGAACTGAGGCGGGTGCAGAAACAGCTGGAAGTTATCAATGCCATCGTGGACCCCAGT}$ 35 GGGAGCCTGGACCTCCCCCACACTGAGCTCCTTTGTTCCTCCCCCTCCAGCCTTT GCCTGGGAACTGGTCCTTGTTTGCCGGACTTCTCGGAGGGTTCACTGTACATTCGTTCTC AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC >M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone=IMAGE:6594852 /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gnl|UG|Mm#S2807038] [SEQ ID NO: 207] 40 TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTGGAGTTTTGCCCAACC  ${\tt AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTT}$ TCAAGGAGAAAAGTTTTATTTTCTCTTTAAGGAACACATTATTTTGGATGTAAGGGATTC CATACCCAATGATTCATCATTTCTGGCCTAATTGGATCAATTTTGAAGGGGGTCCTTTTT  ${\tt ATTTACATTAGTTCTGACGCTATAGACATATTAAATAGCCCATGTTACAGTTCTTAGT}$  ${\tt TCCATATGTCACACCTGCGACTAGAAATCCCAGGGTGGTGGTTACTAACATCAGTACATG}$ TAAAATAACTGAATCTCTGTTGGCTTTGGTACAAAAACAAAACACAAAGAACAGCAAAAA 50 CAAACAAAATTTACATAAATCCAACAACATATATTACATAAGTACTTTTAAAAGTTGAA AGTACAATGTAAACCATCCTATTGCTTAGTAAATTTTCACTTGTTTTCTGAAATTTCTTC AGTATAATTAAATACAAGATAAATAACAGAGACTAACAATTTAAGGGCCCAGGACAAATC TGAAGCAATATTCACTGTATGAAAACACGCTCACAGTGCAAAACCTGAAGAAAATGTGTTT CCATCTATATTCTATCATTCATAAATTCC gi|6679264|ref|NM|008812.1| Mus musculus peptidyl arginine deiminase, type II (Pdi2), mRNA [SEQ ID-55 GCACGGAATGCAGCCGCCTATACGGGAAAATATGCTGCGGGAACGGACCGTGCGGCTGCA GTATGGGAGCCGCTGGAGGCGGTGTACGTGCTGGGCACGCAGCTCTGGACCGATGTCTA CAGTGCAGCACCTGCTGGGGCCAAAACCTTCAGCCTGAAGCACTCGGAGGGTGTGAAGGT 60 GGAGGTCGTACGTGATGGAGAGGCAGAGGAGGTGGTCACCAATGGCAAGCAGCGCTGGGC CCTGTCACCCAGCAGCACACTGCGGCTCAGCATGGCCCAGGCCAGCACAGAGGCCAGCAG  $\tt CGACAAGGTCACTGTCAACTACTATGAAGAGGGGGGGGGCAGCGCCCCATTGACCAGGCTGG$ GCTCTTCCTCACGGCCATTGAGATCTCGCTGGATGTGGACGCAGATCGGGATGGAGAGGT GGAGAAGAACAATCCTAAGAAGGCATCCTGGACCTGGGGTCCTGAGGGCCCAAGGGGCCAT CCTGCTGGTGAATTGTGACCGAGACACCCCTGGTTGCCCAAGGAGGACTGTAGTGACGA 65 AAAGGTCTACAGCAAGCAAGACCTCCAGGACATGTCTCAGATGATCCTGCGCACCAAAGG CCCTGACCGCCTGCCCGCCGGGTATGAAATAGTCCTCTACATCTCCATGTCGGACTCGGA CAAAGTGGGCGTCTTCTACGTGGAGAACCCGTTCTTTGGCCAGCGCTATATCCACATCCT GGGCCGGCAGAAGCTCTACCACGTGGTCAAGTACACCGGCGGTTCTGCGGAGTTGCTGTT 70 CTTCGTGGAGGGCCTCTGTTTCCCCGATGAGAGTTTCTCAGGCCTGGTTTCTATCCACGT

 ${\tt CAGTCTGCTGGAGTATATGGCCGAGGGCATCCCGTTGACCCCCATCTTCACAGACACTGT}$ 

GATGTTCCGGATTGCACCCTGGATTATGACCCCCAACATCCTGCCTCCTGTGTCAGTGTT

 $\tt CGTGTGCTGCATGAAGGACAATTACCTGTTCCTGAAAGAGGTGAAGAACTTGGTGGAGAA$ AACCAACTGCGAACTGAAAGTTTGTTTCCAGTACATGAACCGCGGTGACCGCTGGATCCA GGATGAAATCGAGTTTGGCTATATTGAGGCACCCCACAAAGGCTTCCCAGTAGTGCTGGA  $\tt CTCCCCTCGAGATGGAAACCTGAAGGACTTCCCCATTAAGCAACTCCTGGGCCCAGATTT$ TCTGGAGGTCAGTCCCCCAGTGACCGTGAATGGCAAGGAGTACCCGCTTGGCCGGATCCT  ${\tt CATCGGAAGCAGTTTCCCCCTGTCTGGAGGCAGGAGGATGACCAAGGTGGTACGCGACTT}$ CCTGCAGGCCCAGCAGGTGCAGGCGCCCGTGGAACTCTACTCCGACTGGCTGACTGTAGG 10 CCACGTCGATGAGTTTATGACTTTCATCCCCATCCCAGGCAAAAAGGAATTTCGGCTGCT GGAGGCCGTTATGTTCAAGGGCCTGGGAGGCATGAGCAGCAAGCGCATCACCATCAACAA GATCCTGTCCAATGAGAGCCTCACGCAGGAGAACCAGTACTTCCAGCGCTGTCTGGACTG GAACCGCGACATCCTTAAGAGGGAGCTAGCGCTGACTGAGAAGGACATTATTGACCTGCC 15 CGCGCTCTTCAAGATGGATGAAAATCACCAGGCCAGGGCTTTCTTCCCTAACATGGTGAA CATGATCGTGCTAGACAAGGACCTGGGCATCCCCAAGCCTTTCGGGCCCCAGGTGGAGGA  ${\tt GGAGTGCTGCCTGGAGACGCACGTTCGAGGCCTGCTGGAGCCCCTGGGCCTCGCCTGCAC}$ GTTCATCGATGACATCTCCGCCTACCACAAGTTCTTGGGAGAGGTTCACTGTGGCACCAA TGTCCGCAGGAAGCCGTTCGCCTTCAAGTGGTGGCACATGGTGCCCTGACTGCCTTTTCC 20 TTTTCCTCCTCCGCTGCGGTCTCTGGGTCCTTCCTGTACCCCCAAGTCTTTCCCCTACAA  ${\tt GAAGCAGATGGGGATTGGGGGATATATGTGCCTTGCTGTCCCCTGGAGAAGGACCTCAGTG}$ TCCACTGAAGCCCCACCCCACCCCAGTAAGCCCAGCCATCCCCCACCTGAAACTAGTGG GACATGTGGTTAGTGTGCAGAGCCCTGGCCAGGGAAAGGGGACATCAACAAATCATGTAG TCAGATTGTCCCCAGGAATTCTCAGCCTCTACTCCAGGTCAGAATGAGGGAAGGGAAG GGAGGCTCTGAGGTCATTGGCTCTCCCAGCATCCATCTGACATTCAAGGTAGACCAGGAG TGGTGGCTGGCTCCCTGCACCTGTTCATTCCTTACAGATTCCCGTACACGTTGCGTCCCT  ${\tt ACTCCCTGAGGGTCCAATCATTCAGCACAGAATCTTCCAGAAATAGGTCTTAGCAGAGGA}$  $\tt GCGTTCTTCACTTTCTGTGGATGCAGGCTGCCCAAATTTAGGAGATAGGGGAGGTCTCAA$ 30  $\tt CTGTTCTCGCCTGGTCCTCAATTCTCTGGCCAGTTCTTGGGCCCATTGCTCTTCCTAT$  ${\tt TTTGGATATTGACCTTCCTGTTCTGGACATTTGTCCCTCCAGCAGCTACACAGCCAGATC}$ CAGGCCTCCCGAGAGCCTGAGAAGCAGCCTATCTCTCCTCATGGATGCTGGCCCCCAGTGT  ${\tt AGGAGGAATTTCCCAGCATGCTTTCCAAAGGCTCCCATCCAGATACAGGCAAATTTACCC}$ 35 CTTGGCTTCCATTAGAAAGGTCCCCAGGAGCTGCAGAGATGGCTCAGCAATTAAAAATGC AGATCCAGAGGCTCCAGTACCCCGTTCTGGCCCCTGAGGGCACTGCACACATGTGTACAA  ${\tt ACCCATACACATAAATACATTTGTTAGGGTCTGGAGAGATAGGACCCGGTGGTGCACAAT}$  $\tt CTGCTCTTGCAGAGTACCAGGGTTCGGTTCTCAGCACCCAGGTGGTGGCTCACAACTACC$ TATAACTCTAGTTCCAGGGGGTCCAATGCTCTCGTCTGACCTCCATGGGCTTCTGCACAT AAAAAATAAGAAAAAATTTTAAATAAAAAGGTCCTTTAAGGCCAAGAAGATAGGAAATAT 45 GCTGTCTTCAGACACCAGAAGAGGGCATCAGATCCCATTACAGATGGTTGTGAGCCAC CATGTGGTTGCTGGGAATTGAACTTAGGACCTCTGGGCGAGCAGTCAATGCTCTTAACCA  $\tt CTGAGCCATCTCTCCAGCCCCGGACCTACATTCTTAGGGGAACAAGATTTTTACCTTGGA$  ${\tt TTATTTCCTCAGCTATGCAATCAACGGGTTGTATGCTACTGAGCAGTGGGCACAGACTTA$ GACTCCGATAACATAAGCTAACCGTAGACTCGCTTGTCCCCTGCAGACAAAGCGCACATC 50 TACGTGGCCGCACTTGCCCTTGCTGTGGTAGGCTCTTTGGGAACACTACCCAGTATATCC  ${\tt AATAAGCATACAGCTCAACAGTCACTGCCTTCGAGAGTTAGGGTCGTGTCTTCTTCTCCA}$ TCCAGTTGGGCCAACAGCCAGGCCAGGTCAGGCCTCAGAGCCTCCCAAGCTGCCATCGTC TGTCTCTGAAGACAGTGGTCCCTGCCCTTGAGGGCAAAGCCCCAAATCCTGTCTCCTGCT 55  $\tt CCAGAGTAGAAAACACGGGCACCTCTCTGAGGGAGGTGGAGGTGGGGGGCTTGT$  $\tt GGTGTTCGGTTAAAGTGACTTTACTGCTTTTATTTTTATCTGGGGTGGGAGGAAGTGAGC$ ACCTCCCATATGGCAGCCGCGTGGCTTTGTAGACTGCTACAATACTCCCTGGTGGCATTG GTTGTCTCAGAAATTTCTGGAACTCCAGGACTCAGACACTGCCTGTCCCATCTCACTTAC 60 TTGCTCTCCCCACCCCACTGTGTTTTGTTTTGTTTTAACTTAGGCCCAGATGCT TCTGGGCTACACCAGTTCCTGTTTCGATGTGAGTTTTGAAATGCTCCGTGAAGGGCTGAG GGACGGCAGGAAGATGGCGGGAGCCAGGCAGTACCAACTTCCTGGCGAAGAAGCCAAGAT GGAGACTGAGAAGTGTTTGGGGAAGAGCCAAAATAAAGAGCAATAAAATAAGCCGTCCAC GGGAAGCTAAAAAAAAA >M_1.0.0_17421 Mus musculus 18 days embryo whole body cDNA, RIKEN full-length enriched library, 65 clone:1190004M21:hypothetical protein, full insert sequence cr: gi-12835692/// /cds=(1165,1500) /gb=AK004486 /gi=12835692 /ug=Mm.22521 /len=1512 [Mouse_jongleur_201102.10923.C1] [SEQ ID NO: 209] AGAGTCTGGAGAGTGGCTGGGAGGAAAGAGACTTGTAGAAACCTCGGGAAAACTTGCCTC CGTCTGCCCATTGCTGCTCTTCTAGGTCTGCAAATGAAGAGCCCTGAAAAGAAGCGAAGA 70 AAGTCCAATACTCAGGGTCCTGCATATTCACATCTGACGGAGTTCGCCCCACCCCCGACC CCCATGGTGGATCATCTGGTCGCTTCTAACCCTTTTGAGGATGATTTCGGAGCCCCTAAA

 $\tt GTGGGGGGCGCAGGCCCTCCGTTCCTCGGCAGTCCGGTGCCCTTTGGAGGCTTTCGTGTA$ 

 ${\tt CAGGGGGGCATGGCAGGCCAGGTACCCCCAGGCTACGGCACTGGAGGAGGGGGGTCCC}$  ${\tt CAGCCACTTCGTCGGCAGCCCCCTCCTTTTCCCCCCCAACCCTATGGGTCCAGCTTTTAAT}$ ATGCCCCCTCAGGGCCCTGGCTACCCGCCCCCTGGCAACATGAACTTTCCCAGTCAACCC TTCAACCAGTCTCTGGGCCAAAACTTTAGCCCACCTGGTGGGCAGGTGATGTCAGGCCCA GTAGGCGGATTTGGTCCCATGATCTCACCGACCATGGGACAGCCTCCTAGAGGGGAGCTG GGTCCTCCTCCCCCCAACGCTTTACCCAACCAGGAGCACCTTTTGGTCCTTCTCTT  ${\tt CAGAGACCTGGTCAGGGACTCCCCAGCCTGCCCCCCAACACAAGTCCCTTCCCTGGTCCA}$ GACCCTGGTTTTCCTGGCCCTGGCGGTGAGGATGGTGGGAAGCCCTTGAACCCACCGGCT 10 CCCACCGCCTTTCCCCAGGAGCCCCATTCGGGCTCCCCCGCTGCTGCTGTCAATGGGAAT CAGCCCAGTTTCCCCCCTAGCAGCAGTGGTCGAGGTGGGGGCACTCCAGATGCCAACAGT CTGGCACCCCCGGCAAGGCAGGGGGAGGCTCAGGGCCCCAGCCTCCCCCAGGCCTGGTG TACCCCTGCGGTGCCTGCCGTAGTGAGGTAAATGATGACCAGGATGCCATTCTGTGTGAG GCCTCCTGCCAGAAGTGGTTTCACCGCGAGTGCACCGGCATGACCGAGAGTGCCTACGGC 15 CTGCTGACCACCGAGGCCTCTGCCGTCTGGGCCTGTGATCTTTGCCTCAAGACCAAGGAG ATCCAGTCTGTCTACATCCGAGAGGGCATGGGCCAGTTGGTGGCTGCTAACGATGGGTGA  $\tt CTCTAGTACCATGGCCTGGGAAAGTGCACCTTTTCCACCGTGCTCCTGCAGAGTGGCTCT$  $\tt CTTTCTTTCCTTGTCTTCCACCACTGGCATCCCATCTCCATGGAGCAGAAACATGTTTCC$ TGGAAGCAGAAAAGGAACTGAGGCGGACAGGCAGAAAAGCCTGGGTTGCTTGTCTTCTGT 20 TGTTGTTTGTTTTTTTTTTTTTTTTTGGGAACTTGTGCACTGAGTACCTTCAGAGAT  ${\tt CCAGGAAGCTAAAGCCTGGTTGAGCAGAGCCATTCCTAGAGTCTAACCAGAGGCTGCAAG}$  ${\tt AGAAAATGGGCTGGAGGAAGTTTTAGAGAGCAAGGATGTCCTGTGCGCAGATGACCCCAA}$  ${\tt CACCCGTGCCTACAATACCTGTATAGCCCCATGGCTGCTGCTGTAGCTCTTGGAGTCGAA}$ TGTTCAAGGTTCCTTGGCTCCCTGAGGTAGAGCCCCTTTCCTTGGGTTCAGGAGACAAAT 25  ${\tt GGGGATTTCTTTTTTTCTCTGTGTCCCTTTGCTTCCCCTGCACCTGACTTACTCCATT}$ CCCCTCGGAGCACCAAATACCTTGAGGAAATAGGAGAGTTCCTGACTAGGGCAGTTGTCT GGGCTTCAAGACTGTAGGTAAGAGATGCTGAGAGGACGTCTTCCTCATACCAAAGTCATT GTCCTCTCTCAGCTTCTCTTGTGGTTGTTTTCTCTCTAGTGACCATGTTTTGCCAAAAATT  ${\tt GGTATATGTGGTCTGAGTGACCAGAGTATTTGAAGTTGGGGCTCCCCTAGAAGTCTGGAC}$ TGCAGGTGTAACCCCCCCAATCTGGTGCACAGTGGGACAGTGCTACTTTTCAGCTCTTG  ${\tt GTGCCTCATATCCTCTGTCTCCAGAAAACATTTGGGAAGGCACGAAGCCCTTATACCTC}$ ACTCCTTCCCTTGATGAAAGGATCCAAGGGAGGCCCTGCCATGGCTTTGGGGACATGGGG  ${\tt CCGAGCAGGACCCTCAAAGCCATGGTACCGCAAGCTGGAAGAACCTGAAGTGGTCTG}$  ${\tt CTTAGTCTTTTTTATC@TGCGATGTCATCGTGGGCCTGGCGATCCAGCAATTAGGCTAGG}$ 35 TTTATTTTTGGTTTTGTAGCACTCCCTGCCAGAGATGGGATCGAGGCCTGATCAGGAGCC GGCAGGCTTGGGTGTGGCCCTCCTGAGAGTCGGAGGTGCCCAGCTTGACCGCGAAGGCTG 40  ${\tt CAATTCCTAAACTACACGAGGCAGCCCCTCTACTTAGCTTTGTGTTGTGTTTTTG}$ TTCGCCCATGTTACCTGCCGCTACTTTTGTGTTGTCTCCATGGTTTGTAAAATGCTCCCG GGGAGGCCCATCCCCCTTGTTCTTCTCTGCTACCTTTTGGAAGAAGTGGGTTGGCAGG GATGTGGTTACAGGATCTTTTTGTACGGTTGGATTAATAAAATGACTTGAAAATCCT >M_1.0.0_47422 vp40bl1.rl Mus musculus cDNA, 5' end as: gi-2893320/// /clone=IMAGE:1079133 /clone_end=5' /gb=AA823452 /gi=2893320 /ug=Mm.25352 /len=219 [gnl|UG|Mm#S299539] [SEQ ID NO: 210] 45  ${\tt ATTGTGTTTTGCTAGCGTTTTGGTTTAGATTTGTGGTGCTGGGGATGGAACCCAGTGCTT}$  ${\tt GTACATGGTAGCCAAGAACTCCATGTTGAGCTACAAACTCAGCTCGGTTTTCTAGGTGGT}$ TGACCATGTTTCTGTTGAGCGGCATTCCTCCATGTCGA >H_1.0.0_48696 Homo sapiens cDNA FLJ90324 fis, clone NT2RP2001817, highly similar to Homo sapiens sirtuin type 1 (SIRT1) mRNA si: gi-22760489/// [Human_jongleur_201102.cl.6521.singlet] [SEQ ID NO: 50 2111  ${\tt CAGATCCTCAAGCGATGTTTGATATTGAATATTTCAGAAAAGATCCAAGACCATTCTTCA}$ 55 AAGGAAAACAATTTTGGAAATATATCCTGGACAATTCCAGCCATCTCTCTGTCACAAATT CATAGCCTTGTCAGATAAGGAAGGAAAACTACTTCGCAACTATACCCAGAACATAGACAC GCTGGAACAGGTTGCGGGAATCCAAAGGATAATTCAGTGTCATGGTTCCTTTGCAACAGC ATCTTGCCTGATTTGTAAATACAAAGTTGACTGTGAAGCTGTACGAGGAGATATTTTTAA 60 TCAGGTAGTTCCTCGATGTCCTAGGTGCCCAGCTGATGAACCGCTTGCTATCATGAAACC AGAGATTGTGTTTTTTGGTGAAAATTTACCAGAACAGTTTCATAGAGCCATGAAGTATGA  ${\tt CAAAGATGAAGTTGACCTCCTCATTGTTATTGGGTCTTCCCTCAAAGTAAGACCAGTAGC}$ GTGTCATAGGTTAGGTGGAATATGCCAAACTTTGCTGTAACCCTGTAAAGCTTTCAGA 65 AATTACTGAAAAACCTCCACGAACACAAAAAGAATTGGCTTATTTGTCAGAGTTGCCACC TTCAGTGATTGTCACACTTTTAGACCAAGCAGCTAAGAGTAATGATGATTTAGATGTGTC TGAATCAAAAGGTTGTATGGAAGAAAAACCACAGGAAGTACAAACTTCTAGGAATGTTGA 70 AAGTATTGCTGAACAGATGGAAAATCCGGATTTGAAGAATGTTGGTTCTAGTACTGGGGA GAAAAATGAAAGAACTTCAGTGGCTGGAACAGTGAGAAAATGCTGGCCTAATAGAGTGGC

AAAGGAGCAGATTAGTAGGCGGCTTGATGGTAATCAGTATCTGTTTTTGCCACCAAATCG  ${\tt TTACATTTTCCATGGCGCTGAGGTATATTCAGACTCTGAAGATGACGTCTTATCCTCTAG}$  $\tt TTCTTGTGGCAGTAACAGTGATAGTGGGACATGCCAGAGTCCAAGTTTAGAAGAACCCAT$  $\tt GGAGGATGAAAGTGAAATTGAAGAATTCTACAATGGCTTAGAAGATGAGCCTGATGTTCC$  ${\tt AGAGAGAGCTGGAGGAGCTGGATTTGGGACTGATGGAGATGATCAAGAGGCAATTAATGA}$  ${\tt TAATAATTGTGCAGGTACAGGAATTGTTCCACCAGCATTAGGAACTTTAGCATGTCAAAA}$ TGAATGTTTACTTGTGAACTCGATAGAGCAAGGAAACCAGAAAGGTGTAATATTTATAGG  ${\tt TTGGTAAAATAGATTGTTTTCATGGATAATTTTTAACTTCATTATTTCTGTACTTGTAC$ 10  ${\tt GCTGTTGGTCAAGACTAACTTTTAAAGGTTCATTTGTATGATAAATTCATATGTGTATAT}$  ${\tt AATGTTAAATTAATGTAAAGGGAACAGCTAATCTAGACCAAAGAATGGTATTTCACTTT}$  ${\tt TCTTTGTAACATTGAATGGTTTGAAGTACTCAAAATCTGTTACGCTAAACTTTTGATTCT}$ 15  ${\tt TTAACACAATTATTTTAAACACTGGCATTTTCCAAAACTGTGGCAGCTAACTTTTTAAA}$ ATCTCAAATGACATGCAGTGTGAGTAGAAGGAAGTCAACAATATGTGGGGAGAGCACTCG  ${\tt GTTGTCTTTACTTTTAAAAGTAATACTTGGTGCTAAGAATTTCAGGATTATTGTATTTAC}$  ${\tt GTTCAAATGAAGATGGCTTTTGTACTTCCTGTGGACATGTAGTAATGTCTATATTGGCTC}$ ATAAAACTAACCTGAAAAACAAATAAATGCGTTGGAAATGTTTCAGTTGCTTTAGAAACA 20 TTAGTGCCTGCCTGGATCCCCTTAGTTTTGAAATATTTGCCATTGTTGTTTAAATACCTA TCACTGTGGTAGAGCTTGCATTGATCTTTTCCACAAGTATTAAACTGCCAAAATGTGAAT ATGCAAAGCCTTTCTGAATCTATAATAATGGTACTTCTACTGGGGAGAGTGTAATATTTT GGACTGCTGTTTTCCATTAATGAGGAGAGCAACAGGCCCCTGATTATACAGTTCCAAAGT AATAAGATGTTAATTGTAATTCAGCCAGAAAGTACATGTCTCCCATTGGGAGGATTTGGT 25 GTTAAATACCAAACTGCTAGCCCTAGTATTATGGAGATGAACATGATGATGTAACTTGTA GCCTGCCTTAAAACTAGAGATCAACTTTCTCAGCTGCAAAAGCTTCTAGTCTTTCAAGAA  ${\tt GTTCATACTTTATGAAATTGCACAGTAAGCATTTATTTTTCAGACCATTTTTTGAACATCA}$ GAAATATAGCTGTTCTTTATGCATAAAACACCCAGCTAGGACCATTACTGCCAGAGAAAA 30 TACACTAAAGAATGCAGTATATTTAGTTTTCCATTTGCATGATGTTTTGTGTGCTATAGAT GATATTTTAAATTGAAAAGTTTGTTTTAAATTATTTTTACAGTGAAGACTGTTTTCAGCT  $\texttt{CTTTTATATTGTACA} \textcolor{red}{\textbf{\#}} \textbf{A} \textbf{GTCTTTTATGTAATTTACTGGCATATGTTTTGTAGACTGTTT}$ 35 AATGACTGGATATCTTCCTTCAACTTTTGAAATACAAAACCAGTGTTTTTTACTTGTACA  ${\tt CTGTTTTAAAGTCTATTAAAATTGTCATTTGACTTTTTTCTGTT}$ >qi|4482024|qb|AT549661.1|AT549661 ve61d02.yl Beddington mouse embryonic region Mus musculus cDNA clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTCTCAGCAGTGTTACTCTGGTGCTGG 40 AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGGTCTGTGTTGGAATCCTGAAGAAGT  ${\tt GAGTGAGGGCAAGCAGGGGAAAAGCCATAGCTTGCTTTTTTCCCTGTCCTTTTATATAGGC}$ TGCCACCAGCGTGTGTCCCAGATTTAGGGTGGGTCTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGGTTTCAGTGTTTCCAGATGCCACAGTCAA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA GGGCCCTGTTTTCTGGATTTGACCATGGCAGAGTT >H_1.0.0_25623 Homo sapiens nuclear transcription factor, X-box binding 1 (NFX1), transcript variant 1, mRNA cr: gi-22212923/// [Human_jongleur_201102.12184.C2] [SEQ ID NO: 213,320] ACGTGACCTGGTGACAGTGCTGACTGGCTGTACAGCTCGATCTAGGTTCTGCGGCACGG 50 GATGGCGGAGGCGCCTCCTGTCTCAGGTACTTTTAAATTCAATACAGATGCTGCTGAATT  ${\tt CATTCCTCAGGAGAAAAAAATTCTGGTCTAAATTGTGGGACTCAAAGGAGACTAGACTC}$  $\tt CCCTTATGATGAAATCTCTGCTGTTCATCAGCATAGTTATCATCCGTCAGGAAGCAAACC$ TAAGAGTCAGCAGACGTCTTTCCAGTCCTCTCTTGTAATAAATCGCCCAAGAGCCATGG  $\tt CCTTCAGAATCAACCTTGGCAGAAATTGAGGAATGAGAAGCACCATATCAGAGTCAAGAA$ 55  ${\tt AGCACAGAGTCTTGCTGAGCAGACCTCAGATACAGCTGGATTAGAGAGCTCGACCAGATC}$ TGCAGATCCCAGGGGAGCAAAACCCAAAAAAGCAACACAGTTTGTATACAGCTATGGTAG AGGACCAAAAGTCAAGGGGAAACTCAAATGTGAATGGAGTAACCGAACAACTCCAAAACC GGAGGATGCTGGACCCGAAAGTACCAAACCTGTGGGGGTTTTCCACCCTGACTCTTCAGA 60 ATACCCACAGAAAAGGCCTCCCTGGGAAGTGGAGGGGCCAGGCCACGACCAGGCAGAAA TCCACCAAAACAGGAGGGCCACCGACATACAAACGCAGGACACAGAAACAACATGGGCCC CATTCCAAAGGATGACCTCAATGAAAGACCAGCAAAATCTACCTGTGACAGTGAGAACTT GGCAGTCATCAACAAGTCTTCCAGGAGGGTTGACCAAGAGAAATGCACTGTACGGAGGCA 65 GGATCCTCAAGTAGTATCTCCCTTTCTCCCGAGGCAAACAGAACCATGTGCTAAAGAATGT GGAAACGCACACAGGTTCTCTAATTGAACAACTAACAACAGAAAAATACGAGTGCATGGT  ${\tt GTGCTGTGAATTGGTTCACGGCCCCAGTGTGGAGTTGTCAGAGCTGTTACCATGT}$ GTTTCATTTGAACTGCATAAAGAAATGGGCAAGGTCTCCAGCATCTCAAGCAGATGGCCA GAGTGGTTGGAGGTGCCCTGCCTGTCAGAATGTTTCTGCACATGTTCCTAATACCTACAC 70 TTGTTTCTGTGGCAAGGTAAAGAATCCTGAGTGGAGCAGAAATGAAATTCCACATAGCTG

TGGTGAGGTTTGTAGAAAGAAACAGCCTGGCCAGGACTGCCCACATTCCTGTAACCTTCT

CTGCCATCCAGGACCCTGCCCACCCTGCCCTGCCTTTATGACAAAACATGTGAATGTGG ACGAA CCAGGCACACAGTTCGCTGTGGTCAGGCTGTCTCAGTCCACTGTTCTAACCCATG TGAGAATATTTTGAACTGTGGTCAGCACCAGTGTGCTGAGCTGTGCCATGGGGGTCAGTG CCAGCCTTGCCAGATCATTTTGAACCAGGTATGCTATTGCGGCAGCACCTCCCGAGATGT GTTATGTGGAACCGATGTAGGAAAGTCTGATGGATTTGGGGATTTCAGCTGTTTAAAGAT  ${\tt ATGTGGCAAGGACTTGAAATGCGGTAACCATACATGTTCGCAAGTGTGCCACCCTCAGCC}$ CTGCCAGCAATGCCCACGGCTCCCCCAGCTGGTGCGCTGTTGCCCCTGTGGCCAAACTCC 10 CTGTGAAAAGCTCTGCCATGAAGGAGACTGTGGACCATGCTCTCGCACATCAGTTATTTC  $\tt CTGCAGATGCTCTTTCAGAACAAAGGAGCTTCCATGTACCAGTCTCAAAAGTGAAGATGC$ TACATTTATGTGTGACAAGCGGTGTAACAAGAAACGGTTGTGTGGACGGCATAAATGTAA TGAGATATGCTGTGTGGATAAGGAGCACAAGTGTCCTTTGATTTGTGGGAGGAAACTCCG 15 TTGTGGCCTTCATAGGTGTGAAGAACCTTGTCATCGTGGAAACTGCCAGACATGCTGGCA  ${\tt AGCCAGTTTTGATGAATTAACCTGCCATTGTGGTGCATCAGTGATTTACCCTCCAGTTCC}$  $\tt CTGTGGTACTAGGCCCCCTGAATGTACCCAAACCTGCGCTAGAGTCCATGAGTGTGACCA$ GAAGTGGTGCATGGGCAAGCATGAGTTTCGGAGCAACATCCCCTGTCACCTGGTTGATAT 20  $\tt CTCTTGCGGATTACCCTGCAGTGCCACGCTACCATGTGGGATGCACAAATGTCAGAGACT$  $\tt CTGTCACAAAGGGGAGTGTCTTGTGGATGAGCCCTGCAAGCAGCCCTGCACCACCCCCAG$ AGCTGACTGTGGTCACCCGTGTATGGCACCCTGCCATACCAGCTCACCCTGCCCTGTGAC TGCTTGTAAAGCTAAGGTAGAGCTACAGTGTGAATGTGGACGAAGAAAAGAGATGGTGAT TTGCTCTGAAGCATCTAGTACTTATCAAAGAATAGCTGCAATCTCCATGGCCTCTAAGAT AACAGACATGCAGCTTGGAGGTTCAGTGGAGATCAGCAAGTTAATTACCAAAAAGGAAGT 25 TCATCAAGCCAGGCTGGAGTGTGATGAGGAGTGTTCAGCCTTGGAAAGGAAAAAGAGATT  ${\tt AGCAGAGGCATTTCATATCAGTGAGGATTCTGATCCTTTCAATATACGTTCTTCAGGGTC}$ AAAATTCAGTGATAGTTTGAAAGAAGATGCCAGGAAGGACTTAAAGTTTGTCAGTGACGT TGAGAAGGAAATGGAAACCCTCGTGGAGGCCGTGAATAAGGGAAAGAATAGTAAGAAAAG  $\tt CCACAGCTTCCCTCCCATGAACAGAGACCACCGCCGGATCATCCATGACTTGGCCCAAGT$ TTATGGCCTGGAGAGCGTGAGCTATGACAGTGAACCGAAGCGCAATGTGGTGGTCACTGC  ${\tt CATCAGGGGGAAGTCCGTTTGTCCTCCTACCACGCTGACAGGTGTGCTTGAAAGGGAAAT}$  ${\tt GAGCAGTAATTTACAG} {\color{red} {\bf A}} {\color{blue}  35  ${\tt CTAAGAAGATCATGATGCACTTAGATAAAAGAATGATTAGGTATAGTGGAGACTTATTTG}$ CCAGCAGATAAATCATGCCCGTTCCCCTCTGCCTGGCAGAATCACAGTCTCACATACTGT ATAAAGTGTTTCATTATGACCAGATCTCTGATTGTATGGTCACTAGGTATGCAATCACGC ATTCAAAGAGGCTCTTTACACCATCACTGTGATTGCTCTGAGAGTTGAGGGACTATTGGG 40  ${\tt CTTTATTTGGACAAACCAAACTTTTAGCCTGAAACCAACTTTATGCCACTAAGTCATAGC}$ TGCTTTACCCAAACTGATCAAAATCTTTAGGAGCACAAATGAATTTTTTAGTCTGAAATA CCAAATAATGAATTGGTATACCATATCCGGAATCACACATGTTATCTTAAACCCAGCCAT  ${\tt CATACCTAAGTCTTTTGCCAAAACCTCTCATAGGTATATCTAGCTGAACTTATTTTGGCA}$ TTTTCAATGTGATCAGTTCTAGACCTAGAAGGGGGTCAGGCTGCTTTACAGAATTCTATT TCCTTAAGTCCCTGGCACTTCTCATACCACATCACTGAACCTGTTCAGTAACAATCAGTT TGGCCGTCCCCCATGATGGTAGGAAATATAGAGAGCAAGTTCTTCTGCCAGGGTCACACT  $\tt GTGGTCTCTGAACTGACCAGTATATCCCTAACTCCTCTTTGATAGAGAAAGAGTCTCAAA$  ${\tt TGGACAACTGTCCTGTGTTGCTTTCCCTAGGCCTTCAGCAGCCTATTGGCTCTCCCTGCC}$ 50  ${\tt TCTGAGCTCTGGACTCTGTTTGAATATTCCAAGTAGTATATGGACAGTCCAGGGCTTATG}$  $\verb|CCCAGCAGCCCACTGGAGGCATTCTTCAGGCTCCTTTAAGGCAGGTGCATTGATAGTTCC||$  ${\tt ATTAGTGTGACCCTTGCATTGGCACCCCTCCAGCCTGGAGGCCAGGCTTCCAGCAACTTC}$ CTTCTGCCCTAGAGCAAGCCATGAGCCCCAGAGCAGTAGCAGGAGACTTGAGAAGTAGAG TGACAAAAACAAGCACTTAATTAAATTATAAAATTTAACTTT >M_1.0.0_20492 Mus musculus adult male brain cDNA, RIKEN full-length enriched library, 55 clone:0710001D07:unclassifiable transcript, full insert sequence cr: gi-12833293/// /cds=UNKNOWN /gb=AK002941 /gi=12833293 /ug=Mm.45160 /len=1133 [Mouse_jongleur_201102.13739.C1] [SEQ ID NO: 214] GGTGGCCGCGCACGCGCTCTGCGCGCTCGCGTCACTTAGCAACGGCTCAACCGTGGGCCA TTAAAACCCAAAACCCCAGGGCCCCAAGTCGCCTCAAGCGGGGGTCTTGCGGCGTGTTTC  $\tt CCCAGGTCGGAACCACTGCCCCTCCAATACTGGGCCCTGAGGGTGTGGCCCCCCTGCCGA$ CACCTGGCTCAGGGTGAGGCACGTCATCACACGTCACTGAATAGCGTCATCGGTCGCGTC ACTGCGTAAGGGGACGAGCCGGAGCGCCGGTTGGAGAAAGCCTCGTCTTTCTGCACTTAG  ${\tt TCGCTTGCCTGATGGACAGTCAGCTACTTGCGAAAAGTTGGACAAGGAGAATGGGCCAAG}$ 65  $\tt CCTCCTTCTGTCAGTGGGAAAACGGATACCCGACTTGCCTGCGCTAAAAAGGTGTCAACT$ TAGGGACGAAATAATGCTTTGCGAGGCTGCGGGCGAACTGATCTCATTCGAACTCCTTAT  ${\tt TTCAAGACCCTGACAGAAAGCCCGGACATAAGTCCTCGACACTCCAGGACTACCAAGTGT}$ AACGTATAAAGCCCATTAGACTCCATCTTTCACATAAGAAGCAGGCACTGTGAACTTTGA  ${\tt AGCCGTAGAAATTGGGTTGTAGGTCTTTCCTGGCCGAAACTGGAGAGTCGTCACTCTTGA}$ AAGTTACTTACCTGGGTGTGTGGGTTTGAAGATGGAAGACTTAATTCCAAGCAAAGACGA 70 CTTAAATGGGCAGTGAAAATGAACAGACACAGCAAGGGTTAGGGCTGGGCCAGTGAAGGA

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    CTCTCATCTTCCATGTGGAACGATATCCATCAATTTAATACATCTACTTTCCG
    >H_1.0.0_24040 Human cathepsin L gene, complete cds cr: gi-809235/// [Human_jongleur_201102.11345.C6] [SEQ ID NO: 215]
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    A {\tt GATGATTGAGCAGACAATCAGGAATACAGCCAAGGGAAACACAGCTTCACAATGGCCAT}
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    \tt GCTTATCTCACTGAGTGAGCAGAATCTGGTAGACTGCTCTGGGCCTCAAGGCAATGAAGG
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     >M_1.0.0_6998 Mus musculus trophoblast specific protein alpha (Tpbpa), mRNA cr: gi-6678404///
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GCTATTTGGAAAGTACAAAAAGCTTTATTACAGAAATTTGTTCCTGAAATTCGAGATGGT CAAAGAGAATTTGCTGCTACAAATAGTTATCTTGGATATTTTGGAGATGCAAAGAGTAAA TACAAAAGAATATATGTGAAGTTCATTGAAAATGCAAACAAGAAGGAATATGTCAGAGTG TGTTCTAAAAAGCCAAGAAATAAACCTTCACAAACTATCAGAACTGTTCAAGCTAAGCCA AGTAGTAGCAGTAAAACTTCTGATCCTCTAGCATCAAAAACTACAACTACAAAAGCCCCCT 40 TCCGTGAAACCCAAAGTTAAACAGCCAAAAGTAAAGGCTGAGCCACCACCAAAGAAACGG AAAAATGGAAAGAATTTTCATCATCCCAATCTGACTCATCTCCTGAGATCCATACT AGTAGTAGTGACGATGAGGAATTTGAACCTCCCGCTCCCTTTGTCACTCGCTTTTTGAAC ACAAGAGCAATGAAGGAAACCTTTAAGAGCTACATGGAATTGCTTGTTAGCATTGCCTTG GACCCTGACACAATGCAAGCCTTAGAGAAGAGCAATGATGAGCTACTTTTACCTCATATG 45 AAAAAAATAGATGGCATGCTAAATGATAACCGAAAGAGACTTCTTTTGAATCTTCATTTG GATCAATCATTCAAGAATGCTTTGGAAAGTTTTCCTGAACTAACAATAATTACTCGAGAT AATAAGAAAACTCTAAGGACTTCTAAAACAACCACCAAATCTGCACAAGAGTTTGCTGTC GATCCAGAGAAAATACAGTTGTATTCTTTGTATCATTCACTCCATCATTATAAGTACCAT 50 GTTTATCTGATATGTAAGGATGAGATTTCTTCGGTGCAGAAAAAAATGAAGATTTAGGA  ${\tt CAGGAGGAAATTGTTCAACTTTGTATGAAAAATGTAAAATGGGTGGAGGACCTCTTTGAA}$  ${\tt AAATTTGGAGAACTTCTAAATCATGTACAGCAGAAATGTTCCTGACTTTTCCACAAAAAT}$ CCCATCTTTTTATAGCACTAATGAAATGGCAGATATGGGGTGGTCAAAGATAATCAGATG TCAAGTAGTGGCCTTCTGCAGGCCGGCCGCTTCCATCATGGAACTGTCATTACCACCTCT 55 GCTGAAGGACAGTGGTGCGGCCTCTAGGAACGAAGTTAGTCCTCTGGAAATGGACCTAAA TCCCACCACATTTTTACCCTAATGAATGATTTTTCTATTTTGTAAACCATTGGGTAACTT GAGTCATATTTTCAGAAACATTTTTTGACAAATGATGAAGCATGCACTAAGTATAATTTT ACACCAGAATGACAGAGAGTGGCAGAAACCATATGTTTGTACTCACATCTGGCCACAAA 60 ACCAGAAATACTGTACATTATGTAAAGAGGTCTGGTGTGGTGTGACATCCTGTATAAGAA TATCATCAATTTAAAATATAAAATTTGGAAACTATTCTGCTTTACAGACTCCTTTTACTC TTAACATGTTCAGGAAACTGGATGTGGAATTGGTACAATTCTCTGACCGCTTTTTGTGTC AAATTATATTGTGATAAAAAAAACAATGACATACTATTTTCCCTATCGCAAAGAAAAGTAT TTTCGTTTATACTGTTTTTTCCTTTGGAAAATTTTCAATTGTACATTTTATTTCACTGAT 65 AGTTGTATTTTCACAAGGAAAATGTTGTGGTTATAATTACGTTTGATATATCTCTACAA  ${\tt CACCTTTTGTTATTTCAGTAAATCTTAGTTATATGTTGAATTTCTAATGTGAATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTCTATTC$ CTTGAGGTAACCATTTTTTTCATACAGATTTGCTTCAGTGTTATCCAGAATATGCATTCA GTACTAGAATTAGTTTAGCTTTATAAATAGGGCTGTGTTAGACACTGCAGTAATTTTCTA  ${\tt ATTCATAAAATAAACTTCTTACTAAACTAGCACTTGATTAACTTGTTGAGGTAAAAATCT}$ 70 AACTACATTTACATTTTGAAGAATAAAACTGATAATTAGACTATTTGCAGTGTTAAACAC  ${\tt AGCTTCCTTAACTCTTAGAACTGGAAGTTGTAGAGCTCTCCTTTTGGTGCCTTTCCAGCC}$ 

CATCTCAGATTCAAATTCCAAATCATGCTTTAGGGCATGGCCATCAGGCATCTCTTCCTA

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      CGGAGCCGCACGCCAAGAAAAATCTAAGATCTCCGCCTCGAGAAAATTGCAGCTGAAGA
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      \tt CGGCTTTTCCTGCGGTATTCCTGTAGCGCCTTCTCCGCCACTGTGTCCATAAACTTAGGG
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     YZA1_HUMAN HYPOTHETICAL PROTEIN [H.sapiens] [Human_jongleur_201102.6858.C2] [SEQ ID NO: 227]
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     \tt GGCGGGGAACGAGTTCAAGAACATCTTCGGCACCCCGGAGTTTGTGGCCCCAGAGATTGT
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     AAGAACAGAAGCTTTTGGAACAAGCTTTGAAAACATACCCAGTAAATACACCTGAAAGAT
     GGGAAAAATAGCAGAAGCGGTGCCTGGCAGGACAAAGAAGGACTGCATGAAACGATACA
     AGGAACTTGTCGAGATGGTAAAAGCAAAGAAGCTGCTCAAGAACAAGTGCTGAATGCAA
     GTAGAGCCAAGAAATGACAATCTTTGTTGTGTGTGCATTTTTATAATAAAACTGAAAATA
55
     \tt CTGTAAACATTTTCATTCTTAAAATTATACTCATGGTAATAATTTGAAAGT
     >H_1.0.0_61535 Homo sapiens cDNA FLJ36226 fis, clone THYMU2001018, moderately similar to MOB1
     PROTEIN si: gi-21752445/// [Human_jongleur_201102.cl.22024.singlet] [SEQ ID NO: 231]
     ACTTCCGCCCCCCCCCCCCATTGGAACTAGCTGAGCCGAACTAGTTGCGGCCACCGA
     GCAGCCGGCTCTCGGCACCTCCTCCTCCCTGTCTCCTGTTCCATTCGCCTTTCC
60
     {\tt CGCGGCCAACATGAGCTTCTTGTTTGGTAGTCGCTCTTCTAAAACTTTTAAACCAAAGAA}
     GAACATTCCAGAGGGTTCTCACCAGTATGAGCTCTTAAAACACGCAGAAGCCACACTTGG
     TGCAGTTAACACTGTGGATTTCTTCAATCAGATCAACATGCTTTATGGAACTATCACAGA
65
     CTTCTGTACAGAAGAGAGTTGTCCAGTGATGTCAGCTGGCCCAAAATATGAGTATCATTG
     GGCAGATGGAACGAACATAAAGAAACCTATTAAGTGCTCTGCACCAAAGTATATTGATTA
     CTTGATGACTTGGGTTCAGGACCAGTTGGATGAGACGTTATTTCCATCAAAAATTGG
     TATAATTAATTTTGTAAGGGGGATCCATCATGATTTATCTTTTATATGTTTATAGAATT
     TTCCTCCCTCTTTCCACTATATCTAGTCGGAGAGTTCTTTATGGCTGTGTTGATATATGT
70
     {\tt ATATGTTACGCAGTTCCCAAGAAGAGGCACAAAAGTTTGTTAACCCAGTGGTAAAATAAG}
     {\tt CAAGTGATCCTGTGTGAATTGAGCTTTTCCCCTTTAACTTAGTGCTTTAAATGCTTAAT}
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 ${\tt TAGCTGAAAGTATAGGTTTATTAGAAAATAAATGATCTCCCTCTCTTAAGGTAATTATTT}$  ${\tt TTGATGATATTCTAGATTAAAGTATCACTGAGTTTATTTTCAGACAATGATAGCATTTTT}$ AAAGGCTTAAGAAGCCCTTTCAGTAGAAAGTTCTAGATGGAGGGTTATTCCTATTCTAGG AACCATGGTAAATTACCATACATAACATATATTTTTAATCTTATGCACTTACAGGTGTTC TATTTTAATCTAAATTTTCATTTTTGGGAGACAAGAGTATCTCTGTATTGCCCAGGCT  ${\tt GGAGTGCAGTGGCGTGATCTTGGCTCACTGCAGCCTCCACCTCCCGGGTTCAAGTGATTC}$  ${\tt TCTTGCCTCAGCATCCTAAGTAACTGGGACTACAGACGCGTGCCACCACGCCCAGCTAAT}$ TTTTTTGCATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTC  $\tt CTGACCTCAAGTGATCTACCCACCTCGGCCTCCCAAAGTACTGGGAACCCTCTCTATAAT$ TTTAAATGATGAGATCAGTATATCTAGGATAGTAACAAAATCTGGCCCAAAAAACAGAAT GGATATTGAGTAGATTGCTAATAACATCTGCCACAGTTGTATCTACTTATTTAGGGAAGT  ${\tt TCATATGGCTTCTATCCAGTGTTATTTAGTAATATTTTGTGATCAAAAGGGAGTTTGAA}$ 15 TTTATGACCCACAATATGAATCTTACAGATTCAGATATTAAGCTATGTGAGAAGAAAACA  ${\tt AGGGCAGACTTATCAAGTAGAAATTGTTTACGTTTAGATAGTCATGTTTTTGCCTTCTCA}$ AACTTCTGACAACTGATTGTCTCAAAAAGCTAAGAATCTGCTCCTGTAATGTTAGAACTT TTTGACATTTTACGATTTTTTTTGAAAAAAAAATGTGACAACAATATAAATAGTTGTTGT 20 TATGGAGTACTTTAAACATATTTATTGAATGCATTAACCACTTGGAACTTTTTTAATAAA AGAGCAATTTTTCAAG >H_1.0.0_113724 Moderately similar to S12207 hypothetical protein (B2 element) - mouse [M.musculus] as: gi-20365192/// UI-E-EJ1-aka-c-14-0-UI.rl Homo sapiens cDNA 5' end /clone=UI-E-EJ1-aka-c-14-0-UI clone_end=5' /gb=BQ189641 /gi=20365192 /ug=Hs.373409 /len=566. [gnl|UG|Hs#S4404983] [SEQ ID NO: 2321 AAGATGATGTTACTCCAATATGCAGATGACCTCATCAGGGCAGCCATCCAACATGGACAC GTGCACAATGGCCACTCAAGAGCTCCTAGGACCTCTCCAATGCCTGAGATACTTGATGGA TGTGCACCAAGAAGGCCCAACTCTGCAACCGGAATGCCACATACTTGGGATTCCATGAAG  ${\tt GGAGGAAGTCCTAGTTTATGTCATGTGAACAGGAAATCTTGGGTTGGCGAGATCGCTCAA}$ 30  $\tt CGGCTAAGAACACTTATTGCTCTTCTGAAGGCCCTGAGTTCAAATCCCAGCAATCACATG$  ${\tt GTGGCTCACAACCACCTATAATGAGATCTGATGCCCTCTTCTGGTGTGTCTGAACTCAGC}$  ${\tt TACAGGGTACTTATGTTTAATAATAAATAAATCTTTGAGCCAGAGTGAGCAAGTTTGACC}$ AAAGCGAGCGGGGCCGAGTGGAGCTAGTAAAAGGTCCTAAAATTTCAATTCCGAACAACCA  ${\tt CATGAAGGCCCACAAC} {\color{red}{CAT}} {\color{blue}{TCTGTACAGCTACAGTGTACTCACATAAAATAAAGAAATCTT}$ 35 >H_1.0.0_5968 Homo sapiens serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1 (SERPINF1), mRNA cr: gi-4505708/// [Human_jongleur_201102.1833.C1] [SEQ ID NO: 233] GGAGCCCCTCAGTGTGCAGGCTTAGAGGGACTAGGCTGGGTGTGGAGCTGCAGCGTATC 40  ${\tt CACAGGCCCCAGGATGCAGGCCCTGGTGCTACTCCTCTGGAGCCCTCCTCGGGCA}$ AGGGGCGCTGGTGGAGGAGGAGGATCCTTTCTTCAAAGTCCCCGTGAACAAGCTGGCAGC GGCTGTCTCCAACTTCGGCTATGACCTGTACCGGGTGCGATCCAGCATGAGCCCCACGAC CAACGTGCTCCTGTCTCCTCTCAGTGTGGCCCCCCTCTCGGCCCCTCTCGCTGGGAGC 45 GGAGCAGCGAACAGAATCCATCATTCACCGGGCTCTCTACTATGACTTGATCAGCAGCCC AGACATCCATGGTACCTATAAGGAGCTCCTTGACACGGTCACTGCCCCCCAGAAGAACCT  ${\tt CAAGAGTGCCTCCCGGATCGTCTTTGAGAAGAAGCTGCGCATAAAATCCAGCTTTGTGGC}$  ${\tt ACCTCTGGAAAAGTCATATGGGACCAGGCCCAGAGTCCTGACGGGCAACCCTCGCTTGGA}$ CCTGCAAGAGATCAACAACTGGGTGCAGGCGCAGATGAAAGGGAAGCTCGCCAGGTCCAC 50 AAAGGAAATTCCCGATGAGATCAGCATTCTCCTTCTCGGTGTGGCGCACTTCAAGGGGCA  ${ t GTGGGTAACAAAGTTTGACTCCAGAAAGACTTCCCTCGAGGATTTCTACTTGGATGAAGA}$ GAGGACCGTGAGGGTCCCCATGATGTCGGACCCTAAGGCTGTTTTACGCTATGGCTTGGA TTCAGATCTCAGCTGCAAGATTGCCCAGCTGCCCTTGACCGGAAGCATGAGTATCATCTT  $\tt CTTCCTGCCCCTGAAAGTGACCCAGAATTTGACCTTGATAGAGGAGAGCCTCACCTCCGA$ 55 GTTCATTCATGACATAGACCGAGAACTGAAGACCGTGCAGGCGGTCCTCACTGTCCCCAA GCTGAAGCTGAGTTACGAAGGCGAAGTCACCAAGTCCCTGCAGGAGATGAAGCTGCAATC  $\tt CTTGTTTGATTCACCAGACTTTAGCAAGATCACAGGCAAACCCATCAAGCTGACTCAGGT$ GGAACACCGGGCTGGCTTTGAGTGGAACGAGGATGGGGCGGGAACCACCCCCAGCCCAGC  ${\tt GCTGCAGCCTGCCCTCACCTTCCCGCTGGACTATCACCTTAACCAGCCTTTCATCTT}$  $\tt CGTACTGAGGGACACAGAGGGCCCTTCTCTTCATTGGCAAGATTCTGGACCCCAG$ 60  ${\tt GGGCCCCTAATATCCCAGTTTAATATTCCAATACCCTAGAAGAAAACCCGAGGGACAGCA}$ GATTCCACAGGACACGAAGGCTGCCCCTGTAAGGTTTCAATGCATACAATAAAAGAGCTT >H_1.0.0_21590 Homo sapiens, similar to sphingosine kinase, clone MGC:40267 IMAGE:5213270, mRNA, complete cds cr: gi-22539642/// [Human_jongleur_201102.9905.C4] [SEQ ID NO: 234] 65 GAAAAGTTTGAGGCCGGAGGAGCGAGGCCGGGGAGTCCGCTCCAGCGGGGCGCTCCAGT CCCTCAGACGTGGGCTGAGCTTGGGACGAGCTGCGTTCCGCCCCAGGCCACTGTAGGGAA

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{\tt GCGCCGCGCTCCCACCGCTCTGGAGCTCCGGGCAGGGGACACGGCAACCTGGATGGCTG}
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      TGCGACGCCCGCCTGGGCAGCACCGATAAGGAGCTGAAGGCAGGAGCCGCCGCCACGGGC
      {\tt AGCGCCCCACAGCGCCCAGGGACCCCCTGGCAGCGGGAGCCGCGGGTCGAGGTTATGGAT}
      CCAGCGGGCGGCCCCGGGGCGTGCTCCCGCGGCCCTGCCGCGTGCTGGTGCTGAAC
      CCGCGCGGCGCAAGGGCAAGGCCTTGCAGCTCTTCCGGAGTCACGTGCAGCCCCTTTTG
      GCTGAGGCTGAAATCTCCTTCACGCTGATGCTCACTGAGCGGCGGAACCACGCGCGGGAG
      \tt CTGGTGCGGTCGGAGGAGCTGGGCCGCTGGGACGCTCTGGTGGTCATGTCTGGAGACGGG
      \tt CTGATGCACGAGGTGGTGAACGGGCTCATGGAGCGGCCTGACTGGGAGACCGCCATCCAG
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      TATGCTGGCTATGAGCAGGTCACCAATGAAGACCTCCTGACCAACTGCACGCTATTGCTG
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15
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     \tt CCCGTGGTCGCCTTCCGCTTGGAGCCCCAAGGATGGGAAAGGTGTGTTTGCAGTGGATGGG
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     AGCGGTTGCGTGGAGCCCCCGCCCAGCTGGAAGCCCCAGCAGATGCCACCGCCAGAAGAG
     \tt CCCTTATGACCCCTGGGCCGCGCTGTGCCTTAGTGTCTACTTGCAGGACCCTTCCTCCTT
     \tt CCCTAGGGCTGCAGGGCCTGTCCACAGCTCCTGTGGGGGGTGGAGGAGACTCCTCTGGAGA
     AGGGTGAGAAGGTGGAGGCTATGCTTTGGGGGGACAGGCCAGAATGAAGTCCTGGGTCAG\\
     GAGCCCAGCTGGCTGGGCCCAGCTGCCTATGTAAGGCCTTCTAGTTTGTTCTGAGACCCC
30
     CACCCCACGAACCAAATCCAAATAAAGTGACATTCCC
     >H_1.0.0_15972 Homo sapiens proteasome (prosome, macropain) inhibitor subunit 1 (PI31) (PSMF1), mRNA
     cr: gi-5803122/// [Human_jongleur_201102.6827.C1] [SEQ ID NO: 235]
     ATTCGCGGCCGCTGCAAGAACCAGCGCAAGAGGGAAGCGGAGTTATAGCTACCCCGGCCG
     \tt CGGAGCCGGCTCACTG{\color{red}CA}CTACCCCCGCCCCTTCTTTCCTCCAGACGCCGAAGTCGCGG
35
     {\tt GCGCTCATGGCGGGCCTGGAGGTACTGTTCGCATCGGCAGCGCCGGCCATCACCTGCAGG}
     {\tt CAGGACGCGCTCGTCTGCTTCTTGCATTGGGAAGTGGTGACACACGGTTACTGCGGCTTG}
     {\tt GGTGTCGGTGACCAGCCGGGTCCCAATGATAAGAAGTCAGAACTGCTGCCAGCTGGGTGG}
     {\tt AACAACAATAAAGACCTGTATGTCCTCCGGTATGAGTATAAGGATGGGTCCAGAAAGCTC}
     \tt CTTGTGAAAGCCATCACCGTGGAGGAGCAGCATGATCCTCAATGTGCTGGAATATGGCTCA
40
     {\tt CAGCAAGTGGCAGACTTGACCCTGAACTTGGATGATTATATTGATGCAGAACACCTGGGT}
     {\tt GACTTCCACAGGACCTACAAGAACAGTGAGGAGCTTCGGTCTCGTATTGTGTCTGGAATC}
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     {\tt AGTCGGCAGCCTCCCTGGTGTGATCCCCTGGGCCCGTTTGTTGTCGGGGGAGAAGACTTA}
45
     {\tt GACCCTTTTGGGCCTCGGAGAGGTGGCATGATTGTGGATCCCCTGAGATCTGGCTTCCCA}
     A GAGCACTTATTGACCCTTCCTCAGGCCTCCCGAACCGACTTCCTCCAGGCGCTGTGCCC\\
     \tt CCAGGAGCTCGCTTTGACCCCTTTGGACCCATTGGGACCAGCCCACCCGGACCTAACCCA
     GACCATCTCCCCCCGCCGGGCTACGATGACATGTACCTGTGAAGGCCTCAAGAATGTAAC
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50
     TCTTGCAGGCTGGGGCAAGGGATTCTGCTCATGTGTGGAGACCGGCTGGGATAGCCT
     \tt CCCCACCCCTTATCAGAGCCAAGACACCTGCTGGAGCTCTCCACCTAGCTGGAGATAGCT
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     CTCTCCACTTCCCAAGGGAGACTCCGGCAACCTTCAGCAACATATATCCTCGACCAGATG
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65
     {\tt GAGCATGGGCTGCTCTGAGTGTGTGTTGAACTTCGGGAGGAGCAGGGAGCCCTGCACC}
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     {\tt CAGACGCGGGCAGTGATGAGCCCTGTTCTGGAGTGGAAAGAGCACGATAGAGCACCAGGC}
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     TGTGGATCCTTTCATTTCTCAGCTCCCTGGATTCCTTCCCCTAAATTAGGACCTATTATT
     {\tt TACCTGTAGGTAAGCAAGCTACTGTAGCTCTTCTGAGGTATCTCCCAGGCTGTTTTCTGT}
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GAGACTTCTTGTGATTAAAAGAAACAAACCC

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ID NO: 2371
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ACAGGTGAACCCCGTGAGGCTGGCCCGGGAGCCCACGCCGCACAGGTGGGGCCAGGCCGG  $\tt CTGCGTCCAGGCAGGGGCCTCCTGTCCTCTCTGCGCATGTCCTGGATGCCGCTGCGCCTG$  ${\tt CAGCCCCGTAGCCAGCTCTCGCTTTCCACCTCTCAGGGAGCAGATCAAACGGGTGAAGG}$ TGGAATCTCGGCAGGCTCAGGACCTCGCCCGAAGCTACGGCATCCCCTACATCGAGACCT CGGCCAAGACCCGGCAGGTGAGGCAGCTCTCCACCCCACAGCTAGCCAGGGACCCGCCCC GCCCCGCCCAGCCAGGAGCAGCACTCACTGACCCTCTCCCTTGACACAGGGCAGCCGC TCTGGCTCTAGCTCCAGCTCCGGGACCCTCTGGGACCCCCGGGACCCATGTGACCCAGC 10 TCTGGGCTCACGCCCTGCAGTCCTGGGCCGACACAGCTCCGGGGAAGGCGGAGGTCCTTG GGGAGAGCTGCCCTGAGCCAGGCCGGAGCGGTGACCCTGGGGCCCGGCCCCTCTTGTCCC  ${\tt CAGAGTGTCCCACGGGCACCTGTTGGTTCTGAGTCTTAGTGGGGCTACTGGGGACACGGG}$  ${\tt CCGTAGCTGAGTCGAGAGCTGGGTGCAGGGTGGTCAAACCCTGGCCAGACCTGGAGTTCA}$ GGAGGGCCCCGGGCCACCCTGACCTTTGAGGGGCTGCTGTAGCATGATGCGGGTGGCCCT 15  $\tt CTGGTGGAGTCGGGAGCTTCGGGCCAGGCAGGCAGGGAGCCCCTCA$  $\tt CCCAGGCAGGCCACAGGCCGGTCCCTCCTGATCCCATCCCTTCTTTCCCAGGGAGTG$  ${\tt GAGGATGCCTTCTACACGTTGGTGCGTGAGATCCGGCAGCACAAGCTGCGGAAGCTGAAC}$ CCTCCTGATGAGAGTGGCCCCGGCTGCATGAGCTGCAAGTGTGTGCTCTCCTGACGCAGG 20 TGAGGGGGACTCCCAGGGCGGCCACGCCCACCGGATGACCCCGGCTCCCCCTG CCGGTCTCCTGGCCTGCGGTCAGCAGCCTCCCTTGTGCCCCGCCCAGCACAAGCTCAGGA AGCAAGGAAGGAAGGAGGCTGCTGGAGCCCAGTCACCCCGGGACCGTGGGCCGAGGTG ACTGCAGACCCTCCCAGGGAGGCTGTGCACAGACTGTCTTGAACATCCCAAATGCCACCG 25 GAACCCCAGCCCTTAGCTCCCCTCCCAGGCCTCTGTGGGCCCCTTGTCGGGCACAGATGGG ATCACAGTAAATTATTGGATGGTCTTGATCTTGGTTTTCGGCTGAGGGTGGGACACGGTG CGCGTGTGGCCTGGCATGAGGTATGTCGGAACCTCAGGCCTGTCCAGCCCTGGGCTCTCC  ${ t ATAGCCTTTGGGAGGGGGGGGTTGGGAGAGGCCGGTCAGGGGTCTGGGCTGTGGTGCTCT}$ CTCCTCCCGCCTGCCCCAGTGTCCACGGCTTCTGGCAGAGGAGCTCTGGACAAGCAGCAG 30 ATCATAAGGACAGAGGCTTACTGTGCTTCTACCAACTAGGAGGGCGTCCTGGTCCTCCA GAGGGAGGTGGTTTCAGGGGTTGGGGATCTGTGCCGGTGGCTCTGGTCTCTGCTGGGAGC  ${ t CTTCTTGGCGGTGAGAGGCATCACCTTTCCTGACTTGCTCCCAGCGTGAAATGCACCTGC}$  ${\tt CAAGAATGGCAGACATAGGGACCCCGCCTCCTGGGCCTTCACATGCCCAGTTTTCTTCGG}$  $\tt CTCTGTGGCCTGAAGC\overline{GG}TCTGTGGACCTTGGAAGTAGGGCTCCAGCACCGACTGGCCTC$ AGGCCTCTGCCTCATTGGTGGTCGGGTAGCGGCCAGTAGGGCGTGGGAGCCTGGCCATCC CGCCCCTGCCCTCACCCTACCCTTGCCCCACGCCTGCCTCATGGCTGGTTGCTCTTGGAG 40  ${\tt CAGTCCCTGTGTGGTCATCCTGGCTTCTGCTGGGGGCCCACAGCGCCCCTGGTGCCCCT}$  $\tt CCCCTCCCAGGGCCCGGGTTGAGGCTGGGCCAGGCCCTCTGGGACGGGGACTTGTGCCCT$ AGGGCTGCAGGGACACTCCCCCTTTTGTCCAGGGAATACCACACTCGCCCTTCTCCCAG CGAACACCACACTCGCCCTTCTCTCCAGGGGACGCCACACTCCCCCTTCTGTCCAGGGGA 45  $\tt CGCCACACTCCCCCTTCTCCCAGGGGACGCCACACTCGCCCTTCTCTCCAGGGGACGCC$ ACACTCGCCCTTCTCTCCAGGGGACGCCACACTCGCCCTTCTGTCCAGGGGACGCCACAC TCGCCCTTCTCCCAGGGGACGCCACACTCGCCCTTCTCTCCCAGGGGACGCCACACTCCC CCTTCTGTCCAGGGGACGCCACACTCCCCCTTCTCTCCCAGGGGACGCCACACTCCCCCTT CTCTCCAGGGGACGCCACACTCGCCCTTCTCTCCCAGGGGACGCCACACTCCCCCTTCTGT  ${\tt CCAGGGGACGCCACACTCGCCCTTCTCTCCAGGGGACGCCACACTCGCCCTTCTCTCCAG}$ GGGACGCCACACTCCCCCTTCTCTCCAGGGGACGCCACACTCCCCCTTCTCTCCAGGGGA  $\tt CGCCACACTCCCCCTTCTGTCCAGGGGACGCCACACTCGCCCTTCTCTCCAGGGGACGCC$ ACACTCCCCTTCTCTCCAGGGGACGCCACACTCCCCCTTCTCTCCAGGGGACGCCACAC  ${\tt TCCCCCTTCTGTCCAGGGGACGCCACACTCGCCCTTCTCTCCAGGGGACGCCACACTCGC}$ 55  $\tt CCTTCTCCAGGGGACGCCACACTCGCCCTTCTCTCCAGGGGACGCCACACTTGCCCTT$  $\tt CTGTCCAGGGAATGCCACACTCCCCCTTCTCCCCAGCAGCCTCCGAGTGACCAGCTTCCC$  ${\tt CATCGATAGACTTCCCGAGGCCAGGAGCCCTCTAGGGCTGCCGGGTGCCACCCTGGCTCC}$ TTCCACACCGTGCTGGTCACTGCCTGCTGGGGGGCGTCAGATGCAGGTGACCCTGTGCAGG AGGTATCTCTGGACCTGCCTCTTGGTCATTACGGGGCCTGGGCAGGGCCTGGTATCAGGGC 60  $\tt CCCGCTGGGGTTGCAGGGCTGGGCCTGTGCTGTGGTCCTGGGGTGTCCAGGACAGACGTG$ GAGGGGTCAGGGCCCAGCACCCCTGCTCCATGCTGAACTGTGGGAAGCATCCAGGTCCCT  ${\tt GGGTGGCTTCAACAGGAGTTCCAGCACGGGAACCACTGGACAACCTGGGGTGTGTCCTGA}$  ${\tt TCTGGGGACAGGCCAGCCAGAGCCCGAGTCCTAGGGACTCCAGAGAGCAGCCCACTGCCC}$ TGGGCTCCACGGAAGCCCCCTCATGCCGCTAGGCCTTGGCCTCGGGGACAGCCCAGCTAG 65  ${\tt GCCAGTGTGGGCAGGACCAGGCCCCCATGTGGGAGCTGACCCCTTGGGATTCTGGAGCT}$ TTACCCGCAGAGGCCTGGGTGCCGGGACGCTCCCCGGTTTGGCTGAAAGGAAAGCAGATG TGGTCAGCTTCTCCACTGAGCCCATCTGGTCTTCCCGGGGCTGGGCCCCATAGATCTGGG  ${\tt TCCCTGTGTGGCCCCCTGGTCTGATGCCGAGGATACCCCTGCAAACTGCCAATCCCAGA}$ 70 GGACAAGACTGGGAAGTCCCTGCAGGGAGAGCCCATCCCCGCACCCTGACCCACAAGAGG GACTCCTGCTGCCCACCAGGCATCCCTCCAGGGATCC

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70
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\verb|ATCTCCCGCCCTGGGGACTCGGATGACTCCCGGAGCGTGAACAGTGTGCTTCTTTTACC||
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WO 03/058201 PCT/US02/41825

>H_1.0.0_6694 Homo sapiens mRNA for period (Drosophila) homolog 3 hPER3, complete cds cr: gi-[Human jongleur 201102.2143.C5] [SEQ ID NO: 275] NAGCAGGCCGGAGTCCTGAAAGTCGAGCGAGCTCCGGGTTTTGAAAATGTTGGAGGGAAA AGCTCCTCGGAGATGAGCGTGACCCCCTGGCTCGTGGTGGCCGCCTGTTCTCACTAACGC GGGAAGCTCCTGGCCCCGGGAGACGGGGGGCTAAGGACGAGGCCCTGGGCGAAGAATCGG  ${\tt GGGAGCGGTGGAGCCCCGAGTTCCATCTGCAGAGGAAATTGGCGGACAGCAGCCACAGTG}$ 10 AACAGCAAGATCGAAACAGAGTTTCTGAAGAACTTATCATGGTTGTCCAAGAAATGAAAA AATACTTCCCCTCGGAGAGACGCAATAAACCAAGCACTCTAGATGCCCTCAACTATGCTC  ${\tt GAGCACCTCAGGCAGATGTGAGCATGTACAGTCTTGAGGAGCTGGCCACTATCGCTTCAG}$ 15 TAGTGCACATTTCTGAACAGGCTGCTTTGATCCTGAATCGTAAGAAGATGTCCTGGCGT CTTCTCACTTGTTGACCTGCTTGCACCTCAAGACATGAGGGTATTCTACGCGCACACTG CCAGAGCTCAGCTTCCTTTCTGGAACAACTGGACCCAAAGAGCAGCTGCACGGTATGAAT GTGCTCCGGTGAAACCTTTTTTCTGCAGGATCCGTGGAGGTGAAGACAGAAAGCAAGAGA AGTGTCACTCCCCATTCCGGATCATCCCCTATCTGATTCATGTACATCACCCTGCCCAGC CAGAATTGGAATCGGAACCTTGCTGTCTCACTGTGGTTGAAAAGATTCACTCTGGTTATG AAGCTCCTCGGATCCCAGTGAATAAAAGAATCTTCACCACCACACACCCCCAGGGTGTG TTGGAACATCGATCCTAAGCTACCTGCACCCTGAAGATCGTTCTCTGATGGTTGCCATAC  ${\tt ACCAAAAAGTTTTGAAGTATGCAGGGCATCCTCCCTTTGAACATTCTCCCATTCGATTTT}$ 25 GTACTCAAAACGGAGACTACATCATACTGGATTCCAGTTGGTCCAGCTTTGTGAATCCCT GGAGCCGGAAGATTTCTTTCATCATTGGTCGGCATAAAGTTCGAACGAGCCCACTAAATG AGGATGTTTTTGCTACCAAAATTAAAAAGATGAACGATAATGACAAAGACATAACAGAAT TACAAGAACAAATTTACAAACTTCTCTTACAGCCAGTTCACGTGAGCGTGTCCAGCGGCT  ${\tt ACGGGAGCCTGGGGAGCAGCGGTCGCAGGAGCAGCTTGTCAGCATCGCCTCCTCCAGTG}$ ATGCCAGTGTGAACAAATTAAAAATCTGGGTCAGCAGCTCTACATTGAGTCAATGACCA AATCATCATTCAAGCCAGTGACGGGGACACGCACAGAACCGAATGGTGGTGAGTCAG CGAATGGTGGTGAATGTAAGACCTTTACTTCCTTCCACCAAACACTGAAAAACAATA GTGTGTACACTGAGCCGFGTGAGGATTTGAGGAACGATGAGCACAGCCCATCCTATCAAC AGATCAACTGTATCGACAGTGTCATCAGATACCTGAAGAGCTACAACATTCCAGCTTTGA  $\verb|AAAGAAAGTGTATCTCCTGTACAAATACAACTTCTTCCTCCTCAGAAGAAGACAAACAGA|$ ACCACAAGGCAGATGATGTCCAAGCCTTACAAGCTGGTTTGCAAATCCCAGCCATACCTA AATCAGAAATGCCAACAAATGGACGGTCCATAGACACAGGAGGAGGAGCTCCACAGATCC TGTCCACGGCGATGCTGAGCTTGGGGTCGGGCATAAGCCAATGCGGTTACAGCAGCACCA 40 TTGTCCATGTCCCACCCCAGAGACAGCCAGGGATGCTACCCTCTTCTGTGAGCCCTGGA CCCTGAACATGCAGCCAGCCCCTTTGACCTCGGAAGAATTTAAACACGTGGGGCTCACAG  $\tt CGGCTGTTCTGTCAGCGCACACCCCAGAAGGAAGGAGCAGAATTATGTTGATAAATTCCGAG$ AAAAGATCCTGTCATCACCCTACAGCTCCTATCTTCAGCAAGAAAGCAGGAGCAAAGCTA 45 AAGGGAAGCACAAGCGGAAGAAGCTGCCGGAGCCGCCAGACAGCAGCAGCTCGAACACCG GCTCTGGTCCCCGCAGGGGAGCGCATCAGAACGCACAGCCCTGCTGCCCCTCCGCGGCCT  $\tt CTTACCTCGTCCCAGCTTTTCCCCTCCCAGCCGCGACCTCACCCGGAAGAGAATACGCAG$  $\tt CCCCCGGAACTGCACCGGAAGGCCTGCATGGGCCGCCCTTGTCCGAGGGCTTGCAGCCTT$  $\tt CTGTCTGTCGTCTTGTCGCCATCGTTTTTGCCATGTCCATTCCTGGGGGGCGACAGCCT$  ${\tt CAGTCACCAGCCAAAGGAGAGAGAGGAGGAAAAGTGGGAGGCACAAAGCGAGGGGCACCCGT}$ 55 GACCCTCTGAATCTCCAGATCGGATGAGAAGGAACACGTGCCCACAAACTGAGTATCAGT GTGTTACAGGCAACAATGGCAGTGAGAGCAGTCCTGCTACTACCGGTGCACTGTCCACGG  ${\tt GGTCACCTCCCAGGGAGAATCCATCCCATCCTACTGCCAGCGCTCTGTCCACAGGATCGC}$  $\tt CTCCCATGAAGAATCCATCCCATCCTACTGCCAGCGCTCTGTCCACGGGATCGCCTCCCA$ TGAAGAATCCATCCCATCCTACTGCCAGCACACTGTCCATGGGATTGCCTCCCAGCAGGA 60 CTCCATCCCATCCTACTGCCACTGTTCTGTCCACGGGGTCACCTCCCAGCGAATCCCCAT  ${\tt CCAGAACTGGTTCAGCAGCATCAGGAAGCAGCAGCAGCAGTATATACCTTACTAGTAGTG}$ TTTATTCTTCTAAAATCTCCCAAAATGGGCAGCAATCTCAGGACGTACAGAAAAAAGAAA CATTTCCTAATGTCGCCGAAGAGCCCATCTGGAGAATGATACGGCAGACACCTGAGCGCA  $\verb|TTCTCATGACATACCAGGTACCTGAGAGGGTTAAAGAAGTTGTACTAAAAGAAGACCTGG|$ 65  ${\tt AAAAGCTAGAAAGTATGAGGCAGCAGCAGCCCCAGTTTTCTCATGGGCAAAAGGAGGAGC}$ TGGCTAAGGTGTATAATTGGATTCAAAGCCAGACTGTCACTCAAGAAATCGACATTCAAG  ${\tt CCTGTGTCACTTGTGAAAATGAAGATTCAGCTGATGGTGCGGCCACATCCTGTGGTCAGG}$ TTCTGGTAGAAGACAGCTGTTGAGTGACTGTGAGGATGAACCTTCATACCCTTTCCAAGA  ${\tt CGTGTTACACAGACAGACCTTTTTAAGTCCTGGACTTTTAAATGACCATGAAGTTATCAT}$ 70 TGAATGTTAAGATTTTTTCTTCTTGATTTTTTAATACACGTAATCTTTTTGAAGCAGACA  ${\tt TTGTATACAGAATCTTACTTCTCTTTTGTTCCTGATATATTAAAATGGCCAGTTAGGCTCT}$ 

 ${\tt TTTTGTAGTTGAATTGTCTTCTAAAGAGATTGGATGGCCTCTAAAGAGGTATGTGTATCT}$ TTATTTCAGATGTCACCCAGAGTAAATTATAATTAGAAGTATAGCTAGAATGAGCCCCAA ACCTTAGCCTCATTTATTTTGTTCTGTTACATAAGTCATTTTCCCCTTAGAGTGCTTGAA GAAATGCCACCTACAGGTTGTGTACTTTTCATAATGGTTTCCATGAATGTAGTACGTTCA  ${\tt TACAGGCTTCATTCAACCTGGCGTTCCCCTCCATAATTAAGATGAAACATTCCGGTTTTC}$ TCACAACACATTAGCACATACTGTCCATTAGCATATCTGGGGATAACCAGGTTTTGGGGGGT  ${\tt TGAGTTTGGCCTTCATCCTTGTAGATCCCTTTCCTATTGATTTCCCACCTTCCAGTGAA}$  ${\tt ATTCTGAAAGTCTTATCTTAAAAATCGATCCGCTTACCATGGGCCTATTCTTGTAAGTTT}$  ${\tt CAGTTAGCATGTGTAATATTAAAATGAAAGAGCTTCTTACCCAGTGCTGTTGCC}$ 10  $\tt CTTTTGAGTATTTTTGTTTTTAAAATAATGATTGTAAAATGTTTTACAAGTAATGTAAAA$ GCTAGTATCATTCTTACATACTTCTGTGTTTAAATTTTCATTCTTACCAAAACAGTTAAC TCTTTCTTTCCAATCAATTTATACAAAAGAGGTCGCTCCAGCCCTACCACAGGTCTGACT GGCACTGCCTTTTGTTTGCCCCTTGAACAGGGCAGTGTTGTGGGGGACTGCAAAAGAGAAAA  $\tt CGTCCAGGCGAGCCCAGTTGTCCTCGCCCACAGGGTCCTGCAGGCTCCATCAGTCACCGC$ 15  $\tt TTTCTATGGCGTTTGTAGTTGTGTTTTAAGAAGTGAGTGTGATTGTTTACTTGATAAA$ TCAGCTCACTCTGGTGCTTTTTAGAGAAGTCCCTGATTCCTTCTTAAACTTGGAATGA TAGATGAAATTCACACCCCTGCAGATCAGAAAAAACAAATAGAAGAAAATGAGGGTTACA  $\tt TTTTTGGTTTTTATGGTTTTTTAAGGAAAATACTTTTCTCCTTTGAAGTTTTACAGCTT$ 20  ${\tt TTTGTAAATGCGTCCTGATAATGATTAGGAAAATCGACCTTTTCATCCATGATGACCATC}$ CTCATAGCTCAGATTTCCTTTCAAAGTAGTGGCTTTCTGGATGGTAATTCCATCTTAAGG TGTCAGAACTATTTTCAAATGCTGCCTTTGACAGTTCTTGGAATTTTCTGATATTAAGCA GTTCCATGCAAATATTCGTGTTTTATAAATAGCTCTCATAGTCTGCTCCATCTTGATAGT  ${ t TAAGTGATTTCTGAAGCGTTTGTGTGTGTGTTGATCAGGTTGTGTGATATTTTTGCTTGA$ AGTAATAAAGTTTTTGCCACTGTAAATAAAAACAGTATCCGTAGCTATCAGGATCATTGC GGATATTTGTATTATCCAAATGTGCTTATTTCTTTGCCTTAGCACACGTTTTATGGAGTA CTTGTTATACTAGGTTTGATTTGAAACTGGTGCTTGTCGCAGAACTGTCAGAGCATGAGG 30  ${\tt AGCGCTCCTGTGGGTGGACGCATTCACGCACTCCCAGGTTGCACCTGCTGCTGGCGG}$ TGAGCAGGGGGTTCAGCAGCTTGACCGATGCCCCCGAGGGGGGCTCTCCCCAGCTTAAAC  ${\tt TTTGTTGTTAAATTTGTTAACTTTTTATATTAATGACTATTGAAAGTGGTAATAAAAAT}$ TTATATTATAGGCTTCAATGTTTTCATGAATGTTACCCAAAAAGCTGTGTTTTCTTTGGT CAGAGGTCAAAATTTATGAAAAACAAAATGCTGTATGAATGGAAATCATTTTGCAATTGA 35 GTGACACTTCATTGTAATTCACAGTGTAAATTTAATCCAAACTGAAATTTTGTTTCAACT GAATTTGTAATTAACTCTGAATTTGTTTTTAATCATTAGTAATATTTCAGTTGGGTATCT TTTTAAGTAAAAACAACAAATAAACTCTGTACATGTAAAACGTG 40 GGGCGGCCGAACGATGTGCGAGAACTGCGCAGACCTGGTGGAGGTGTTAAATGAAAT ATCAGATGTAGAAGGTGGTGATGGACTGCAGCTCAGAAAGGAACATACTCTCAAAATATT TACTTACATCAATTCCTGGACACAGAGGCAATGTCTATGCTGCTTCAAGGAATATAAGCA  ${\tt TTTGGAGATTTTTAATCAAGTAGTGTGTGCACTTATTAACTTAGTGATTGCCCAAGTTCA}$ AGTGCTCCGGGACCAGCTTTGTAAACATTGTACTACCATTAACATAGATTCCACGTGGCA TACAGAAAGACAAAAATCAATAGAAAAAAAAATCAAACTCTACAAGAATTTGTAATCTGAC TGAGGAGGAATCTTCAAAGAGTTCTGATCCTTTTAGTTTATGGAGTACAGATGAGAAGGA AAAACTCTTACTATGTGTGGCAAAAAATTTTTCAAATTCAGTTTCCCTTATATACTGCTT 50 ACAAGCATAATACTCACCCTACTATTGAGGATATATCAACTCAAGAAAGTAACATATTAG TGTTTTGTGGGAAAAATGGCCTTTCTCTCATGAAGGATTGCTTTGAATATGGAACTCCTG  ${\tt AAACTTTGCCATTTCTTATAGCACATGCGTTTATTACAGTTGTGTCTAATATTAGAATAT}$ GGCTACATATTCCCGCTGTCATGCAGCACATTATACCTTTTAGGACCTATGTTATTAGGT 55 ATTTATGCAAGCTCTCGGATCAGGAGTTACGACAGAGTGCAGCTCGTAACATGGCTGACT TAGATCTTGCATTTAAGTACTTTATGTCACCTACTTTGACTATGAGGTTGGCTGGATTGA GTCAGATAACAAATCAACTCCATACCTTCAATGATGTGTGCAATAATGAATCATTAGTAT  $\tt CGGACACAGAAACGTCCATTGCAAAAGAACTTGCAGACTGGCTTATTAGCAACAATGTGG$ TGGAGCATATATTTGGACCAAATTTACATATTGAGATTATCAAACAGTGCCAAGTGATTT 60 TGAATTITTTGGCAGCAGAAGGGCGACTGAGTACTCAACATATTGACTGTATTTGGGCTG  ${\tt CAGCACAGTTGAAACATTGTAGTCGGTATATACATGACTTATTTCCTTCACTCATCAAGA}$ ATTTGGATCCCGTACCACTTAGACATCTACTTAATCTGGTCTCAGCTCTTGAGCCAAGTG 65 CACTAGCAGCTAAGGCTCAGTTATCTAAACAGAGTTCTTTTGCATCTTTATTAAATACTA ATATTCCCATTGGAAATAAGAAAGAGGGAAGAAGAGCTTAGAAGAACAGCTCCATCACCTT GGTCACCTGCAGCTAGTCCTCAAAGCAGTGATAATAGCGATACACATCAAAGTGGAGGTA GTGACATTGAAATGGATGAGCAACTTATTAATAGAACCAAACATGTGCAACAACGACTTT  ${\tt CAGACAGAGGGAATCCATGCAGGGAAGTTCTGACGAAACTGCCAACAGTGGTGAAGATG}$ 70  ${\tt GAAGCAGTGGTCCTGGTAGCAGTAGTGGGCATAGTGATGGATCTAGCAATGAGGTTAATT}$ CTAGCCACGCAAGCCAGTCAGCTGGGAGCCCTGGCAGTGAGGTACAGTCAGAAGACATTG

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AAGAATCTGGATGTGAAGAGGAGCTAGTTCAGATTAATTCACATGCGGAACTGACATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTCAGATCTAGATCTAGATCTAGATCTAGATCTAGATCTAGATCTAGATCTAGATCTAGATCTAGATCTAGATCTAGATCTAGATCAGATCTAGATCTAGATCTAGATCTAGATCTAGATCAGATCTAGATCTAGATCAGATCAGATCAGATCAGATCTAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATCAGATC$ 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      70
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	>gi 24800794 gb CA436374.1 CA436374 UI-H-DF1-aug-m-18-0-UI.s1 NCI_CGAP_DF	'l Homo sapiens cDNA clone
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	TCTTGAAAGAATATTCTCAAGTGACTGGTTGGAGTTAGAAGGCAATAGCCAATACAGGCAA	•
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25	>H_1.0.0_22746 Homo sapiens hypothetical protein DKFZp762I194 (DKFZp762I1	04)
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35	TAAATTAAGAAGTGCACTAATTCAGAACAAGCAACTAAGACTGTTGCCACAAGAACATGT	•
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	CTTAAGCCATGGCTGAGGTAGCTGGATTCCTCAGGCCCGGGCGCTCCTACAGCAGTGCC	
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<ul><li>55</li><li>60</li></ul>	CCAGCTCCTAACCGCGAGTGATCCGCCAGCCTCGGCCTCCCGAGGTGCCGGGATTGCAGA CGGAGTCTGGTTCACTTAGTGCTCAATGGTGCCCAGGCTGCAGTGCAGTGCAGTGCCTGCATGCCTCCCAAGTGCCAAGAGTG CGCTCGCTACAACCTCCACCTCCCAGCTGCCTTGGCTGCCTCCCGAAGTGCCAAGAGTG CAGCCTCTGCCCGGCCGCCACCCCGTCTGGGAAGTGAGAGAGGGTCTCTGCCTGGCTGCCC ATTGTCTGGGAACGTGAGCAGCCCCTCTGCCTGGCTGCCAGCCTCTGCAAAGTGAGGAGCGC CTCTGCCCGGCCGCCATCCCATC	·
	CCAGCTCCTAACCGCGAGTGATCCGCCAGCCTCGGCCTCCCGAGGTGCCGGGATTGCAGA CGGAGTCTGGTTCACTTAGTGCTCAATGGTGCCCAGGCTGGAGTGCAGTGGCGTGATCTC CGCTCGCTACAACCTCCCAGCTGCCTTGCCT	·
	CCAGCTCCTAACCGCGAGTGATCCGCCAGCCTCGGCCTCCCGAGGTGCCGGGATTGCAGA CGGAGTCTGGTTCACTTAGTGCTCAATGGTGCCCAGGCTGGAGTGCAGTGGCGTGATCTC CGCTCGCTACAACCTCCAGCTGCCTGCCTTGCCT	·
	CCAGCTCCTAACCGCGAGTGATCCGCCAGCCTCGGCCTCCCGAGGTGCCGGGATTGCAGA CGGAGTCTGGTTCACTTAGTGCTCAATGGTGCCCAGGCTGGAGTGCAGTGGCGTGATCTC CGCTCGCTACAACCTCCACCTCCCAGCTGCCTTGGCTCCCGAAGTGCCAAAGAGTG CAGCCTCTGCCCGCCCCCCCCCTCTGGGAAGTGAGGAGCGTCTCTGCCTGC	· .
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20	CTACTTTTATGTTTTGCATATATATTGTGTATTATAAATATTTGATTGA	•		
	TTTGTCTGGCTTATTTCGCTTAACACACTGATCTTCAGTTCCAAAAAAACATTATAAATTA			
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70	CATAGGTAATGATTATATAAAATACATAATATTTTCAATTTTGAAAACTCTAATTGTCC		•	
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20
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25
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     GCTTGGGATCCCTTCAAGTGGAGTAACACCAAATCCTATGAGGACCTGAAGGCGGAGTCT
20
      GGCAACCTTAGGGACTGGAGCCAGATCACTGCTGAGGTCACAAGCCCCAAAGTGGACGTG
      TTCAATGCTAACAGCAACCTCAGTTCTGGGCCTCTGCCCATCTTCCCCCTGGAGCAGCTA
      \tt CTGTCCATTGAAGATTTCACTCAGGCCTTTGGGATGACTCCAGCTGCCTTCTCTGCTCTG
      CCTCGATGGAAGCAACAAAACCTCAAGAAAGAAAAAGGACTATTTTGAGAAGAGTAGCTG
25
      TGGTTGTAAAGCAGTACCCTACCCTGATTGTAGGGTCTCATTTTCTCACCGATATTAGTC
      CTACACCAATTGAAGTGAAATTTTGCAGATGTGCCTATGAGCACAAACTTCTGTGGCAAA
      TGCCAGTTTTGTTTAATAATGTACCTATTCCTTCAGAAAGATGATACCCC
      >H_1.0.0_99143 7p07c08.x1 Homo sapiens cDNA 3' end as: gi-11448929/// /clone=IMAGE:3644943
      /clone_end=3' /gb=BF436690 /gi=11448929 /ug=Hs.319750 /len=548.Weakly similar to DEHULC L-lactate
30
      dehydrogenase (EC 1.1.1.27) Chain X - human [H.sapiens] [gnl|UG|Hs#S2910008] [SEQ ID NO: 294]
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      GTTTATAACTGCAGATCCTTCTGCATATTCCAGAGTGIGTCCGCACTCTTCTTGAGGAGA
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35
      ACACAAGGGATACTGAGGAAGACCTCTTCCTTTATCCCATGGAAGCCCTTAACCAGCGTG
      {\tt GTAACAGGATGCACTCTCTTAAGATTCTTCAAGATGGATCGCGCCAGATCAGTCACAGAC}
      \tt AGCCCGATAGCCCAAGAGGTATAGCCCTTCATGTTAAGGACCTCATAGCCGCCTTCCACC
      {\tt ACCTGCTTGTGAACATTTTTCCAGTGTTCCTTATCTGAGTCAGTTGCTATTGCTGGGTTC}
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40
      >gi|21452365|gb|BQ551479.1|BQ551479 H4009E10-5 NIA Mouse 7.4K cDNA Clone Set Mus musculus cDNA clone
      H4009E10 5', mRNA sequence [SEQ ID NO: 295]
      GGAAAATTCTTAGGGCTGCTCTTCTCTTCCTTTGTTACCTTCTAGTAATAATAAATGTTC
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45
      CTTCATATCATTTCCACTTTGCCCTGAACTAATTCCTAAATAATCTGACAGGCCATTTCA
      G'FACCTTTTGTAGAAAGAATTCCTGTTTAAAAGAGGTAGTCGTCCTAGTCTCTGGTTAGT
      {\tt TCATACATCTGCTGTGTAATAAAAAATGAACTGTCAGAAGCCGTCTAGTTTTGATATATC}
      ACATTGAAAGAGAGCAGTACATGGAGCTTAGAGGGTGGCCATTATGACTAGAGTAGCTTA
      {\tt TCTCCATCTGTGACTTGTCAAGATAAATTTGGAGGGGATGTTTTTATTGTTTGGTGCTTT}
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50
      \tt GTTTCTGTGTTACTGTGACCATGATACAAGACAGTAGCAAAGAGGGGGAGGTTTGTGGGGT
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      GATGGACCAGGGAACTA
      >H_1.0.0_310 Homo sapiens cell-type T-cell immunoglobulin gamma chain, V region (IGHV@) mRNA,
      partial cds cr: gi-185420/// /cds=(0,393) /gb=L03175 /gi=185420 /ug=Hs.402428 /len=394 [Human_jongleur_201102.56.CB100] [SEQ ID NO: 296]
55
      GGCTATTTTAAAAAGTGTCCAATGTGAGGTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGT
      {\tt ACAGCCTGGGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAACTA}
      TGCCATGAACTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGTTATTAG
60
      TGGTTGATGGTAGTAGCACATACTACGCAGACTCCGTGAAGGGCCGGTTCACCATCTCCA
      GAGACAATTCCAAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGG
      \verb|CCGTATATTACTGTGCGAGAGAGATCCGCGATTACGGGGGAACTAGATGATACAATACTAC|\\
      TACGATATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCAGGG
      >H_1.0.0_19016 Homo sapiens cysteine-rich, angiogenic inducer, 61 (CYR61), mRNA cr: gi-4504612/// [Human_jongleur_201102.8413.C2] [SEQ ID NO: 297]
GGCACGAGGGCCCCCCGAGCAGCACCCCCGCGCCCCTCCCGCGCCCTTCTCCGCCGGGACCTCG
65
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      GTCGCCGCGCTCGCCCCGGGCTACTCCTGCGCGCCACAATGAGCTCCCGCATCGCCAGGG
70
      \tt CGCTCGCCTTAGTCGTCACCCTTCTCCACTTGACCAGGCTGGCGCTCTCCACCTGCCCCG
      CTGCCTGCCACTGCCCCTGGAGGCGCCCAAGTGCGCGCCGGGAGTCGGGCTGGTCCGGG
```

	ACGGCTGCGGCTGCTAAGGTCTGCGCCAAGCAGCTCAACGAGGACTGCAGCAAAACGC AGCCCTGCGACCACCCAAGGGGCTGGAATGCAACTTCGGCGCCAGCTCCACCGCTCTGA		
	AGGGGATCTGCAGAGCTCAGTCAGAGGCCAGACCCTGTGAATATAACTCCAGAATCTACC AAAACGGGGAAAGTTTCCAGCCCAACTGTAAACATCAGTGCACATGTATTGATGGCGCCG		
5	TGGGCTGCATTCCTCTGTGTCCCCAAGAACTATCTCTCCCCAACTTCTCCCCAACTTCTCCCAAACT		
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2.5	CTAGGCTTTTTTCCTTTTGGGGTTCTACAGTCGTAAAAGAGATAATAAGATTAGTTGGAC AGTTTAAAGCTTTTATTCGTCCTTTGACAAAAGTAAATGGGAGGGCATTCCATCCCTTCC		
25	TGAAGGGGGACACTCCATGAGTGTCTGTGAGAGGCAGCTATCTGCACTCTAAACTGCAAA CAGAAATCAGGTGTTTTAAGACTGAATGTTTTATTTATCAAAATGTAGCTTTTGGGGAGG		
	GAGGGGAAATGTAATACTGGAATAATTTGTAAATGATTTTAATTTTAATTTTAATTTTAACTGAAAAA		
	GATTTTATTTATGGAATTAACCATTTAATAAAGAAATATTTACCTAAT >H 1.0.0 7743 Homo sapiens eosinophil chemotactic cytokine (TSA1902), mRNA cr: gi-111418		
30	[Manail_Jongledi, 201102,2578.C2  [SiX) []) NO. 208	66///	
	GAAACCTCCTCGTCTGTGCACGAACAGGTGGCCCACTCTGGAGCCCAGGCTGTTGCTTTC CAGTCTGGTGGTGAATCCTCCATAGTCTGGAACAGCCAGC		
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55	>H 1.0.0 19196 Homo sapiens heat shock 70kDa protoin 1B (MODALE)	•	
33	GCCTGAGGAGCTCCTCGTCTTTTCAGAGCTACCCCTCCCCT		
	GGCTTTCCAGAGCGAACCTGTGCGGCTGCAGGCACCGGCGTGTTGAGTTTTCCGGCCGTTCC	•	
	GAAGGACTGAGCTCTTGTCGCGGATCCCGTCCGCCGTTTCCAGCCCCAGTCTCAGAGCG GAGCCCACAGAGCAGGCACCGGCATGGCCAAAGCCGCGGCGATCGGCATCGACCTGGGC		
60	ACCACCTACTCCTGCGTGGGGGTGTTCCAACACGCCAACGTGGAGATCATCACCCAACGAG		
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	CTGATCGGCCGCAAGTTCGGCGACCCGGTGGTGCAGTCGGACATGAAGCACTGGCCTTTC CAGGTGATCAACGACGAGACAAGCCCAAGGTGCAGGTGAGCTACAAGGGGGGAGACCAAG		
65	GCATTCTACCCCGAGGAGATCTCGTCCATGGTGCTGACCAAGATGAAGGAGATCGCCCAAG		•
	GCGTACCTGGGCTACCCGGTGACCAACGCGGTGATCACCGTGCCGGCCTACTTCAACGAC TCGCAGCGCCACCAACGATGCGGGTGTGATCGCGCCCTCAAACGAC		
	ATCAACGAGCCCACGGCCGCCATCGCCTACGGCCTCGACAGAACGGGCAACGGGCAC		
70	CGCAACGTGCTCATCTTTGACCTGGGCGGGGCACCTTCGACGTGTCCATCCTGACGATC GACGACGGCATCTTCGAGGTGAAGGCCACGGCCGGGGACACCCCACCTGGGTGGG	•	
	TTTGACAACAGGCTGGTGAACCACTTCGTGGAGGAGGTTCAAGAGAAACACAAGAAGGAC	•	

	ATCAGCCAGAACAAGCGAGCCGTGAGGCGGCTGCGCACCGCCTGCGAGAGGGCCAAGAGG ACCCTGTCGTCCAGCACCCCAGCCCAG	,			•
5	GACCTGGTCCTGGTCGGGGGCTCCACCCGCATCCCCAAGGTGCAGAAGCTGCTGCAGGAC TTCTTCAACGGGCGGACCTGAACAAGAGCATCAACCCCGACGAGGCTGTGGCCTACGGG GCGGCGGTGCAGGCCGATCCTGATGGGGGACAAGTCCGAGAACGTGCAGGACCTGCTG CTGCTGGACGTGGCTCCCCTGTCGCTGGGGCTGAGACGGCCGAGGCCTGATGACTGCC	•		ı	
10	CTGATCAAGCGCAACTCCACCATCCCCACCAAGCAGCGCAGATTTTCACCACCTACTCC GACAACCAACCCAGGGTGCTGATCCAGCTTACGAGGGGGGAAGAGGGCAATGACGAAAGAC AACAATCTGTTGGGGCGCTTCGAGCTGAGCGGCATCCCTCCGGCCCCCAGGGGGCGTGCCC CAGATCGAGGTGACCTTCGACATCGATGCCAACGGCATCCTGAACGTCACCGGCAC AAGAGCACCGGCAAGGCCAGCAAGATCACCATCACCAACGACAAGGGCCCCTGAGCAAG				**
15	GAGGAGATCGAGCGCATGGTGCAGGAGGCGGAGAAGTACAAAGCCGAGGACGACGAGGTGCAG CGCGAGAGGGTGCCAGCAGAACACCCCTGGAGGATCCAACAACAAGAAGAGCGCC GTGGAGGATGAGGGCTCAAGGGCAAGATCAGCGAGGCGGACAAGAAAAAAGGTCTCTGGAC AAGTGTCAAGAGGTCATCTCGTGGCTGGACGCCAACACCTTGGCCGAGAAGAAGAGTTT GAGCACAAGAGAAGAG				
20	GGTGCCGGTGGTCCCGGGCCTGGGGGCTTCGGGGCTCAGGGTCCCAAGGGAGGG				•_
25	TAAGGGTGTTTCCCTTTAAATGAATCAACACTGCCACCTTCTGTACGAGTTTGTTT				
	TTTTATAATTTGTTTATATTAAATATGAAAAATAAAAT	mRNA	cr:	gi-5579469///	
30	CGCCATGGAGACCACCACCCTTCCCACCGCCACTCCCCCTTCCTCTCAGGGTCCCTGTCC CCTCCAGTGAATCCCAGAAGACTCTGGAGGTTCTGAGGTGCAGGGGGCGCACTCTGGCCTC TGATTGGTCCAAGGAAGGCTGGGGGGCAGGCAGGGAGCGAAACCCCTGGAATATTCCCG ACCTGGCAGCCTCATCGAGCTCGGTGATTGGCTCAGAAGGGAAAAGCCGGGTCTCCGTGA CGACTTATAAAACCCCAGGGGCAAGCGGTCCGGATAACGGCTAGCCTGAGGAGCTGCTGC				
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40	ACCCCAGCTACGTGGCCTTCACGGACACCGAGCGGCTCATCGGGGATGCGGCCAAGAAC CAGGTGGCGCTGAACCCGCAGAACACCGTGTTTGACGCGAAGCGGCTGATCGGCCGCAAG TTCGGCGACCCGGTGGTGCAGTCGGACATGAAGCACTGGCCTTTCCAGGTGATCAACGAC GGAGACAAGCCCAAGGTGCAGGTGAGCTACAAGGGGGAGACCAAGGCATTCTACCCCGAG GAGATCTCGTCCATGGTGCTGACCAAGATGAAGGAGATCGCCGAGGCGTACCTGGGCTAC	ı			
45	CCGGTGACCAACGCGGTGATCACCGTGCCGGCCTACTTCAACGACTCGCAGCCCAGGCC ACCAAGGATGCGGGTGTATCACCGGGGCTCAACGTGCTGCGGATCATCAACGAGCCCACG GCCGCCGCCACCACCACGCCTGCGCTGGACAGAACGGGCAAGGGGGAGCCAACGTGCTCATC TTTGACCTGGGCGGGGGCACCTTCGACGTGTCCATCCTGACGATCGACGACGGCATCTTC GAGGTGAAGGCCACGGCGGGGACACCCACCTGGGTGGGAGGACTTTGACAACAGGCTG	•			
50	GTGAACCACTTCGTGGAGGAGTTCAAGAGAAAACACAAGAAGGACATCAGCCAGAACAAG CGAGCCGTGAGGCGCTGCGCACCGCCTGCGAGAGGGCCAAGAGACCCTGTCGTCCAGC ACCCAGGCCAGCCTGGAGATCGACTCCCTGTTTGAGGGCATCGACTTCTACACGTCCATC ACCAGGGCGAGGTTCGAGGAGCTGTGCTCCGACCTGTTCCGAAGCACCCTGGAGCCCGTG GAGAAGGCTCTGCGACCCAGATTCACGACCTGGTCCTGGTC	<i>:</i> •			
55	GGGGGCTCCACCGCATCCCCAAGGTGCAGAAGCTGCTGCAGGACTTCTTCAACGGGCGC GACCTGAACAAGAGCATCAACCCCGACGACGTGGGCCTACGGGGCGGCGGTGCAGGCG GCCATCCTGATGGGGGACAAGTCCGAGAACGTGCAGGACCTGCTGCTGCTGCTGACGTGGCT CCCCTGTCGCTGGGGCTGGAGACGGCCGGAGGCGTGATGACTGCCCTGATCAAGCGCAAC TCCACCATCCCCACCAAGCAGACGCAGATCTTCACCACCTACTCCGACAACCAAC				
60	GTGCTGATCCAGGTGTACGAGGGCGAGAGGGCCATGACGAAAGACAATCTGTTGGGG CGCTTCGAGCTGAGCGGCATCCCTCCGGCCCCCAGGGGGCTGCCCCAGATCGAGGTGACC TTCGACATCGATGCCAACGGCATCCTGAACGTCACGGACAAGAGCACCGGCAAG GCCAACAAGATCACCATCACCAACGACAAGGGCGCCTGAGCAAGGGGAGGATCGAGCG ATGGTGCAGGAGGGGGGAAGATACAAAGCGGAGGAGCAGGGGAGAGAGGGTGTCA				
65	GCCAAGAACGCCCTGGAGTCCTACGCCTTCAACATGAAGAGCGCCGTGGAGGATGAGGGG CTCAAGGGCAAGATCAGCGAGGCCGACAAGAAGAAGGTGCTGGACAAGTGTCAAGAGGTC ATCTCGTGGCTGGACGCCAACACCTTGGCCGAGAAGGACGAGTTTGAGCACAAGAGGAAG GAGCTGGAGCAGGTGTAACCCCATCATCAGCGGACTGTACCAGGGTGCCGGTGGTCCC GGGCCTGGGGGCTTCGGGGCCTCAGGGTCCCAAGGGAGGTCTGGGTCAGGCCCCACCATT				
70	GAGGAGGTAGATTAGGGGCCTTTCCAAGATTGCTGTTTTTGTTTTTGGAGCTTCAAGACTT TGCATTTCCTAGTATTTCTGTTTGTCAGTTCTCAATTTCCTGTGTTTGCAATGTTGAAAT TTTTTGGT(;AAGTACTGAACTTGCCTTTTTTTCCGGTTTCTACATGCAGAGATGAATTTA				:

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5	>H_1.0.0_41040 Homo sapiens cDNA FLJ40060 fis, clone TCOLN2000236, highly PROTO-ONCOGENE PROTEIN si: gi-21757114/// [Human_jongleur_201102.cl.1192. AACCGCATCTGCAGCGAGCAACTGAGAAGCCAAGACTGAGCCGGCGGCGGCGCGCGC		
	CTCGGCCCCTCGCCCGGCTTTGCCTAACCGCCACGATGATGTTCTCGGGCTTCAACGCAG ACTACGAGGCGTCATCCTCCCGCTGCAGCAGCGCGCCCCCGGCCGG		
10	ACTACCACTCACCCTTTCGGAGTCCCCGCCCCCTCCGCTGGGGCTTACTCCAGGGCTGGC GTTGTGAAGACCATGACAGGAGGCCGAGCGCAGAGCATTGGCAGGAGGGCCAAGGTGGAA	:	
	CAGTTATCTCCTGAAGAAGAAGAGAAAAGGAGAATCCGAAGGGAAAGGAATAAGATGGCT GCAGCCAAATGCCGCAACCGGAGGAGGAGGCTGACTGATACACTCCAAGCGGAGACAGAC	;	
15	CAACTAGAAGATGAGAAGTCTGCTTTGCAGACCGAGATTGCCAACCTGCTGAAGGAGAAG GAAAAACTAGAGTTCATCCTGGCAGCTCACCGACCTGCCAGAGATCCCTGATGACCTG		
	GGCTTCCCAGAAGAGATGTCTGTGGCTTCCCTTGATCTGACTGGGGGCCCTGCCAGAGGTT GCCACCCCGGAGTCTGAGGAGGCCTTCACCCTGCCTCTCAATGACCCTGAGCCCAAG	•	
20	CCCTCAGTGGAACCTGTCAAGAGCATCAGCAGCATGGAGCTGAAGACCGAGCCCTTTGAT GACTTCCTGTTCCCAGCATCATCCAGGCCCAGTGGCTCTGAGACAGCCCGCTCCGTGCCA GACATGGACCTATCTGGGTCCTTCTATGCAGCAGACTGGGAGCCTCTGCACAGTGGCTCC		
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	TTCCCCAGCTGTGCAGCTGCCCACCGCAAGGGCAGCAGCAATGAGCCTTCCTCTGAC TCGCTCAGCTCA	•	
25	ACCCACAAGTGCCACTGCCCGAGCTGGTGCATTACAGAGAGGAGAAACACATCTTCCCTA GAGGGTTCCTGTAGACCTAGGGAGGACCTTATCTGTGCGTGAAACACACCAGGCTGTGGG		
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30	CATGTTGAGCCAGGCCTGGGTCTGTGTCTCTTTTCTCTTTTCTCCTTAGTCTTCTCATAGC ATTAACTAATCTATTGGGTTCATTATTGGAATTAACCTGGTGCTGGATATTTTCAAATTG	•	
	TATCTAGTGCAGCTGATTTTAACAATAACTACTGTGTTCCTGGCAATAGTGTGTTCTGAT TAGAAATGACCAATATTATACTAAGAAAAGATACGACTTTATTTCTGGTAGATAGA		
35	TGATCATGCATTGTTGAGGTGGTCTGAATGTTCTGACATTAACAGTTTTCCATGAAAACG TTTTATTGTGTTTTTAATTTATTATTATTAAGATGGATTCTCAGATATTTATT		
	TATTTTTTCTACCTTGAGGTCTTTTGACATGTGGAAAGTGAATTTGAATGAA		•
40	>H_1.0.0_24972 Homo sapiens kinesin-associated protein 3 (KIFAP3), mRNA cr [Human_jongleur_201102.11853.C1] [SEQ ID NO: 303]	r: gi-18105053///	•
40	CAAGAGGTGCAGAGCGCATGCGTCGTGACGGCCCGGCTTAGGCGACTCTGGGCGGG TCTGGGCCGCTCCAGTGTTTTGGGGCACAGAAGCTGTGGGAGGCTGGAGGCTTCACCG		
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	AGAATGTCAAAAAATCATTCGACTTAAGAGTCTCAATGCCAACACACAC		
50	ACAGCTGTTGTACTACTACAGAACCGCCGTGATTCATTGTCAGGAAAAAGAGAAAAAAAA		
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55	TGTCGACTACAAACATAATTTACATCTTTTTTTTTTCTCCAGCTTTTCAATT TCATGGACTTATCACAACATAATTTACATCTCAACTTTTTTTT		
	GTTAAAAAGACATGAGCTTTGGCAAGAAGAACTCTCAAAGAAGAAGAAGCTGTTGATGA AGACCCTGAAAACCAAACC		
<b>CO</b>	GCTTGTGGTAAAACAGGAACAGCTATTACGAGTTGCTCTTTATTTGCTTCTGAATCTTGC TGAGGATACTCGTACCGAACTGAAAATGAGGAACAAGAACATAGTTCACATGTTGGTGAA		
60	AGCCCTTGATCGGGACAATTTTGAGCTGCTAATTTTAGTTGTGTCATTCTTGAAGAAACT CAGCATTTTTATGGAGAATAAAATGATATGGTGGAAATGGATATTGTTG		
65	CCTATCCTTTGACACAGGACTGAGGAATAAGATGGTACAAGTTGGACTGCTTCCCAAGCT CACTGCACTCCTAGGCAATGACAACTACAAACAAATAGCAATGTGTGTTTTTTACCACAT AAGCATGGATGACCGCTTTAAATCAATGTTTGCATACACTGACTG		•
	GAAGATGCTGTTTGAATGTTCAGATGAACGAATTGACTTGGAACTCATTTCTTCTGCAT TAATCTTGCTGCTAACAAAAGAAATGTACAGCTTATCTGTGAAGGAAATGGGCTGAAGAT GCTCATGAAGAGGGCTCTGAAGTTTAAGGATCCATTGCTGAAGAAATGATTAGAAAACAT	i	
70	TTCTCAGCATGATGACCAACTAAAAATCTGTTTATTGATTATGTTGGGGACCTTGCAGC CCAGATCTCTAATGATGAAGAAGAGGAGTTTGTGATTGAATGTTTGGGAACTCTTGCAAA CTTGACCATTCCAGACTTAGACTGGGAATTGGTTCTTAAAGAATATAAGTTGGTTCCATA		

	CCTCAAGGATAAACTAAAACCAGGTGCTGCAGAAGATGATCTTGTTTTAGAAGTGGTTAT		
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	ANTCCCTGCACTCATTGAATTGCTCAACAAGAAGATGATGAATTTGTGTGTCA		
-	GATAATTTATGTCTTCTACCAGATGGTTTTCCACCAAGCCACAAGAGACGTCATAAICAA		
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	AATTCAGAGTGAAAAGTTTCGCTGGCATAACTCTCAGTGGCTGGAGATGGTAGAGAGTCG		
	TCAGATGGATGAGGAGTAGTACTTGTATGGTGATGATCGAATTGAGCCATACATTCA	•	
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10			
10	TGAAGGAGCCATAAGTCCCGATTTCTTCAATGATTACCACCTTCAAAATGGAGATGTTGT		
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	>H 1.0.0 13332 Homo sapiens cytochrome P450, subfamily IIB (phenobarbital-inducible), pol	.ypeptide	e 6
20	(CYP2B6), mRNA cr: gi-20522261/// [Human_jongleur_201102.5324.C1] [SEQ ID NO: 304,317]		
	TCCCCATCGGTGCTTCACCCTGGGGCTGCAATGAGCACCCAATCTTAGTGTCAGATGACA		
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	CAGGAAAGTACAGTTTCCACCTCTTACAAATAGGACTGTTTGTCTGCTCCTCCTGGGTCA		
	AAGTAACTTCGGGTTCAGGTCCTGGATCCAGCAAAGGGTTTGCTTAACATTGCAAGAAAG		
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      \tt GGGAAACTGGGAAACTGGGTTTCTCATTAAAGTTGTTTCCCACTCTGA
      >H 1.0.0 24692 Homo sapiens, Similar to TATA box binding protein (TBP) -associated factor, RNA
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	ACAMON COCCOMICAN DECREASE TO THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CATEGORIES OF THE TANGENT CA	•	
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60	TGTTTGAATGTTAAACTTTGTTGCTAAAGTTTAATTTTAAGATGTTTGAATGTTCAGTTT	·	
• • •	ATGTATTTGAACTACAATAAACCAACCCTTTTTATATAAG		
	H 1 0 0 2140 Home	"	
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	TCTTTCCCATAAGGCAGAGAAAGGAAAATACAAGCATCAGAGGTGAAGGAGGCTGGGACA		•
	CCCCCAGGGAAGGGGCTTCAGGGCCTTGCTTAGGGAAACACAGTGATGAGCCCTCCCT		
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	GCTTAAGCCCAGGAGTTTAAGTCCAGCCTGGGCAACAGAGAGAG	•	
	TATAA		

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	GTGTTCGATGAATTTAAACCTCTTGTGGAAGAGCCTCAGAATTTAATCAAACAAA	• .
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<b>CO</b>	GTTCCAGTGTTCTCTCTTATTCCACTTCGGTAGAGGATTTCTAGTTTCTGTGGGCTAATT	
60	AAATAAATCACTAATACTCTTCTAAGTTATGGATTATAAACATTCAAAATAATATTTTTGA	• :
	CATTATGA!!AATTCTGAATAAAAGAACAAAAACCATGGTATAGGTAAGGAATATAAAACA	
	TGGCTTTTACCT	•
	>H_1.0.0_3308 Homo sapiens regenerating islet-derived 1 alpha (pancreatic stone	protein, pancreatic
	thread protein) (REG1A), mRNA cr: gi-4506470/// [Human_jongleur_2011C2.658.C1]	[SEQ ID NO: .337]
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	AAATTCTGAGAGGGGTTTTAAGGAAGGTAATAGGTGCTTTGCTCTCCATCTCTCAGAAC	•
	CCCCTTCCCTGTGTTCTCCTACAGAGATTGTTGATTTGCCTCTTAAGCAAGAGATTCATT .	
	GCAGCTCAGCATGGCTCAGACCAGCTCATACTTCATGCTGATCTCCTGCCTG	
70	GTCTCAGAUCCAAGGCCAAGAGGCCCAGACAGAGTTGCCCCAGGCCCGGATCAGCTGCCC	•
	AGAAGGCACCAATGCCTATCGCTCCTACTGCTACTTTAATGAAGACCCTGAGACCTG	•

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## Figure 5

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        NUMBER OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE P
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## PCT/US02/41825

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(J)			
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     {\tt CACACCTACCCTCTTTTTTTCCCTATCACTGAAGCTTTTTAGTGCATTAGTGGGGAGGA}
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     \tt CTCATTGTAAACAAACTGTGTAACTGCCCAAAGCAGCACTTATAAATCAGCCTAACATAA
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     >H_1.0.0_3492 Homo sapiens glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase
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     {\tt TCACGAGTATCTGCCAATCCTGGGCCTGGCTGAGTTCCGGAGCTGTGCTTCTCGTCTTGC}
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```

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5	CATGTGTGTTCCCTGCCTGCACAAACCTACATGTACATACCATGGATTAGAGACACTTGC AGGACTGAAAGCTGCTCTGGTGAGGCAGCCTCTGTTTAAACCGGCCCCACATGAAGAGAA			
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10	CAAATTCTAGTCCCAAAGATCAAGTTGTCTGAAGGAGCCAAAGTGTGAATGTGGTGTCG GCTGCGGCATTAAATTCATCATCTCAACCCAGAGTGTCTGGTCTCCCTGCTCTTTCTGCA		1	
	${\tt TGGTTGTGCCCTAGTCCTAGGCTTTGGTTCTTTAGGGTGACTGTGGTAAGAAGGATATT}$			
	${\tt TAATCATGACATGCACGGACACGTACATATTTAACTGAAACAAGTTTTACCAAACAGTAT\\ {\tt TTACTCGTGATGTGCGTAGTGCATTCTGATATTTTTGAGCCATTCTATTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGCGTAGTGCATTCTGATATTTTTGAGCCATTCTATTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGCGTAGTGCATTCTGATATTTTTGAGCCATTCTATTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGCGTAGTGCATTCTGATATTTTTGAGCCATTCTATTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGCATACTTTTTGAGCCATTCTATTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGCATATTTTTGAGCCATTCTATTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGTGCATATTTTTGAGCCATTCTATTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGCATATTTTTGAGCCATTCTATTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGCATATTTTTGAGCCATTCTATTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGCATATTTTTGAGCCATTCTATTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGCATTCTATTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGCATTCTATTGTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGTGCATTCTATTGTGTGTTCTACTT\\ {\tt TTACTCGTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTG$			
15	CACCTAANAAAATANAATAAAAATGTTGATC >H 1.0.0 58926 Homo sapiens cDNA FLJ34227 fis, clone FCBBF3025		42///	
15	[Human_jongleur_201102.cl 16700.singlet] [SEQ ID NO: 14]	0096 SI: 91-21/499	42///	
	AGAACATCCGCGTGGTTCGTTGTGGCGGCAGCGAGTTGAACTTTAGGAGAGCTGTGTTCT CTGCAGATTCTAAGTATATCTTCTGTGTCTCTGGAGACTTTGTTAAAGTTTACAGCACAG			
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20	TTAACCCCAACAACCATCTACAGGTTCCCTTACATGCATTGCGAATATCCAAAAGAGCTG TATTCTTGTTCCCTTGATGGCACAATTAAACTGTGGGACTATATAGATGGCATCTTAATA	_	· · · · · · · · · · · · · · · · · · ·	
	${\tt AAGACTTTCATAGTTGGATGTAAACTTCATGCCCTCTTTACTCTTGCCCAAGCTGAGGAT}$		• •	
	TCTGTCTTTGTTATAGTGAATAAAGAAAACCAGATATATTTCAGCTGGTTTCAGTGAAA CTGCCAAAATCCTCAAGCCAGGAAGTAGAAGCCAAGGAGCTGTCCTTTGTTTTGGATTAC			
25	ATAAACCAGTCACCCAAGTGCATTGCCTTTGGAAACGAGGGAGTATATGTTGCTGCAGTA	•	•	
	CGGGAATTTTACTTGTCTGTTTATTTTTTCAAAAAGAAAACAACATCAAGGTTTACTTTA TCATCATCAAGAAATAAGAAGCATGCTAAAAACAATTTTACGTGTGTAGCATGTCACCCA			
	$\label{eq:constraint} \begin{minipage}{0.5\textwidth} $ACGGAAGACTCGCATCGGCACATGGTGGCAAAATTCGTCTTTGGAGGAATTTT \\ TATGATGATAAGAAATATACGTACACATGTTTACATTGGCACCATGATATGGTTATGGAT \\ \begin{minipage}{0.5\textwidth} $ACGGAAGATATACGTACACATGTTTACATTGGCACCATGATATGGTTATGGAT \\ \begin{minipage}{0.5\textwidth} $ACGGAAGATATACACATGTTTACATTGGCACCATGATATGGTTATGGAT \\ \begin{minipage}{0.5\textwidth} $ACGGAAGATATACGTACACATGTTTACATTGGCACCATGATATGGTTATGGAT \\ \begin{minipage}{0.5\textwidth} $ACGGAAGATATACGTACACATGTTTACATTGGCACCATGATATGGTTATGGAT \\ \begin{minipage}{0.5\textwidth} $ACGGAAGATATACGTACACATGTTTACATTGGCACCATGATATGGTTATGGAT \\ \begin{minipage}{0.5\textwidth} $ACGGAAGATATACGTACACATGTTATGGAT \\ \begin{minipage}{0.5\textwidth} $ACGGAAGATATACGTACATGTTATGGAT \\ \begin{minipage}{0.5\textwidth} $ACGGAAGATATACGTACATGTTATGGAT \\ \begin{minipage}{0.5\textwidth} $ACGGAAGATATACGTACATGTTATGGAT \\ \begin{minipage}{0.5\textwidth} $ACGGAAGATATACGTACATGTTATGTTATGTTATGTTAT$		•	•
30	${\tt TTGGCTTTTTCAGTGACAGGCACCAGTCTGCTGAGTGGCGGTCGTGAATCTGTACTTGTA}$	,		,
	GAGTGGCGCGATGCAACAGAGAAGAATAAGGAGTTTCTCCCGCGTTTAGGAGCTACTATT GAACATATCTCAGTCTCGCCTGCAGGAGATTTATTCTGCACTTCTCACTCTGATAATAAG		:	
	${\tt ATAATAATTATTCACCGAAACCTTGAAGCATCCGCAGTAATTCAAGGCCTAGTGAAAGAT}$		,	
35	AGGAGTATCTTCACTGGTTTGATGATTGATCCAAGAACTAAAGCTTTGGTTTTGAATGGA AAACCTGGCCACCTGCAGTTTTATTCTCTCCAGAGTGATAAACAGTTATACAATTTAGAT			
	ATTATACAGCAAGAATATTAATGATTATGGTCTGATCCAAATTGAACTAACAAAGGCT		,	
	$\label{eq:control} \textbf{GCATTTGGCTTGGTAACTGGCTTGCAACAGTGGAACAGCGGCAAGAAAAGGAAACT} \\ \textbf{GAGCTTGAATTGCAAATGAAACTGTGGATGTATAATAAGAAAACACAAGGGTTTATTCTT} \\ \textbf{CAGCTTGAATTGCAAATGAAACTGTGGATGTATAATAAGAAAACACAAGGGTTTATTCTT} \\ \textbf{CAGCTTGAATGAAAACTGTGGAATGTAAATAAGAAAACAAAGCAAAGGGTTTATTCTT} \\ CAGCTTGAATGAAAACTGTGGAATGTAAATAAGAAAACAAAGAAAACAAAGAAAACAAAGAAAACAAAGAAAACAAAGAAAACAAAGAAAACAAAGAAAACAAAGAAAACAAAGAAAACAAAAGAAAACAAAAGAAAACAAAAACAAAAACAAAAACAAAAAA$	•	•	•
40	AACACTAAAATTAACATGCCACACGAAGACTGCATTACAGCTCTCTGTTTCTGTAATGCA GAAAAATCTGAACAGCCCACCTTGGTTACAGCTAGCAAAGATGGTTACTTCAAAGTATGG			
70	${\tt ATATTAACAGATGACTCTGACATATACAAAAAAGCTGTTGGCTGGACCTGTGACTTTGTT}$		<u> </u>	
	GGTAGTTATCACAAGTATCAAGCAACTAACTGTTGTTTCTCTGAAGATGGTTCTTTACTA GCAGTTAGTTTTGAGGAAATAGTCACAATATGGGAATCTGTAACATGGGAACTTAAATGT		••	
45	A CATTTTGCCAACGAGCTGGGAAAATAAGGCACCTTTGCTTTGGGAGATTGACGTGTTCA	•	*	
43	AAGTATCTACTTGGTGCTACTGAAAATGGCATTCTTTGCTGTTGGAATCTGCTGAGCTGT GCATTGGAGTGGAATGCAAAATTAAATGTTAGAGTTATGGAACCCGATCCTAATTCAGAG	••		
	AATATTGCTGCAATCTCTCAGTCTTCAGTGGGTTCAGACTTGTTTGT		3°	
<b>.</b>	${\tt TTTGTTCCACGAGATGTCCCTGAATCCTTCACCTCAGAAGCTTACCAGTGGCTAAATAGA}$	•	•	
50	TCCCAGTTTTACTTCCTAACAAATCACAGAGTTTATTGACATTCAGTACAAAGTCTCCA GAAGAAAAACTCACACCAACAAGCAAACAGCTGCTAGCAGAAGAAAGTCTTCCCACAACC		4	
·	CCATTTTATTCATATTGGGAAAACACAGGCAACAGCAGGATGAAAAACTAAACGAAACT TTAGAGAATGAGCTGGTACAACTACCCTTAACAGAAAACATACCCGCAATTAGTGAGCTT			
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55	TCATTGCTGCTGTCTAAAGAGACTAAGAGTGCTAAGGAAATTCCTGAAGATGTAGATATG GAAGAAGAAAAGAA			
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	>gi 2350127 gb AA575501.1 AA575501 v194c08.r1 Knowles Solter	mouse blastocyst	B1 Mus musculus cDNA .	
	clone IMAGE:988334 5', mRNA sequence [SEQ ID NO: 15] ATTAACAGACTGTATGTGACTAGGTTCTGTTTTTTTTTT		•	
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	${\tt TTAGAAATGGAAAGGACTTCTTTTTGCCTTTCACTTTTTCACGACGTAACAGTTGTAAGC}\\ {\tt TGCATAAATGTTAGCCTTATAAAAGTTAAAGCAGTTGTTGCACTGAGGTTACAATTGACT}\\$			
	TTTGACCTAACTGATATAAAAATCAAGTGTGGGGGTTGGGGATTTAGCTCAGTGGTAAAG TGCTTGCCTAGC			
70	>M_1.0.0_53089 vul3h03.x1 Mus musculus cDNA, 3' end as: gi-46			
	/clone_end=3' /gb=AI593270 /gi=4602318 /ug=Mm.71891 /len=546	[9K1] UG MM#574618	TI [PEÖ ID MO: Te]	

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10	NUMMINIM			
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30	TT'NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN			
	>H_1.0.0_25158 Homo sapiens necdin homolog (mouse) (NDN), mRNA cr: gi-10800414/// [Human jongleur 201102.11950.C1] [SEQ ID NO: 18]		•	
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65	CTGAGGCTAACCAGCCTGCACACCATGGAGTTTGCGCTGGTCAAAGCGCTGGAGCCCGAG		i i	
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	AT CATOGRATIC COORDINATE TO THE MARKHON COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCARGOOT TOO COOCCA			

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	$\tt CCCCCTGGAGGGCGTGGTCAGTATCGACGGACAAGACATCAGAACCATCAATGTGAGGTA$		
	TCTGAGGGAGATCATTGGTGTGGTGAGTCAGGAACCTGTGCTGTTTGCCACCACGATCGC CGAGAACATTCGCTATGGCCGAGAAGATGTCACCATGGATGAGATTGAGAAAGCTGTCAA	•	
	GGAAGCCAATGCCTATGACTTCATCATGAAACTGCCCCACCAATTTGACACCCTGGTTGG		
50	TGAGAGAGGGGCGCAGCTGAGTGGGGGACAGAAACAGAGAATCGCCATTGCCCGGGCCCT GGTCCGCAATCCCAAGATCCTTTTGTTGGACGAGGCCACCTCAGCCCTGGATACAGAAAG		4
	TGAAGCTGTGGTGCAGGCCGCACTGGATAAGGCTAGAGAAGGCCGGACCACCATTGTGAT	·	
	AGCTCATCGCTTGTCTACAGTTCGTAATGCTGACGTCATTGCTGGTTTTGATGGTGGTGT	•	
55	CATTGTGGAGCAAGGAAATCATGATGAGCTCATGAGAGAAAAGGGCATTTACTTCAAACT TGTCATGACACAGACTAGAGGAAATGAAAT		
	GAGTGACACTGATGCTTCTGAACTGACTTCAGAAGAATCCCAAATCACCTTTAATAAGGAG	•	
:.	ATCAATTTACAGAAGTGTCCACAGAAAGCCAAGACAGAGAGAG		
	$\tt TGAATGGCCTTATTTACTTGTTGGCGTACTTTGCGCTGTTATAAATGGGTGCATACAACC$		•
60	AGTGTTTGCCATAGTATTTTCAAGGATTGTAGGGGTTTTTTCAAGAGATGATGACCATGA AACTAAACGACAGAATTGTAATTTGTTTTCCCTGTTCTTTCT		
	TTTTGTTACATATTTCTTTCAGGGCTTCACATTTGGCAAAGCCGGAGAGATCCTCACCAA		
	GCGAGTCCGATACATGGTTTTCAAATCCATGCTGAGACAGGATATAAGCTGGTTCGATGA CCATAAGAACAGCACTGGCTCACTGACCACCAGGCTCGCCAGTGATGCTTCTAGTGTTAA		
65	${\tt AGGGGCGATGGGCCCAGGCTTGCTGTAGTTACCCAGAATGTAGCAAACCTCGGGACAGG}$	•	
	AGTCATCCTCTCCTTAGTCTATGGCTGGCAGCTGACACTTCTACTTGTAGTAATTATACC		
	GCTCATTGTATTGGGCGGAATTATTGAAATGAAGCTGTTGTCTGGCCAAGCCTTGAAGGA CAAGAAACAGCTTGAGATCTCTGGGAAGATTGCTACAGAAGCAATTGAAAACTTCCGCAC		
70	TATTGTCTCTTTGACTCGGGAGCAGAAGTTTGAAACCATGTATGCCCAGAGCTTGCAGGT		
70	ACCATACAGAAATGCGATGAAGAAAGCACACGTGTTTGGGATCACGTTCTCCTTCACCCA GGCCATGATGTATTTTTCTTATGCTGCTTGTTTCCGGTTCGGTGCCTACTTGGTGGCACA		

	ACAACTCATGACTTTTGAAAATGTTATGTTGGTATTTTCTGCTGTTGTCTTTGGTGCCAT					
	GGCAGCTGGGAATACTAGTTCATTTGCTCCTGACTATGCGAAAGCCAAAGTATCAGCATC					
	TCATATCATCAGGATCATTGAGAAAACCCCTGAGATTGACAGCTACAGCACAGAGGGCTT					
_	GAAGCCTACTCTGTTAGAAGGAAATGTAAAATTTAATGGAGTCCAGTTTAACTATCCCAC					
5	CCGACCCAACATCCCAGTGCTTCAGGGGCTGAGCCTCGAGGTGAAGAAGGGCCAGACGTT					
	GGCCCTGGTGGGCAGCAGTGGCTGTGGGAAGAGCACAGTGGTCCAGCTGCTCGAGCGCTT					
	CTACGACCCCATGGCTGGATCAGTGTTTCTAGATGGCAAAGAAATAAAGCAACTGAATGT CCAGTGGCTCCGAGCTCACCTTGGCATTGTGTCCCAGGAGCCCATTCTCTTTGACTGCAG					
	CATTGCAGAGACATCGCCTATGGAGACAACAGCCCGGGCCGTGTCTCATGAGGAGATTGT					
10	GÄGGGCAGCCAAGAGCCAACATCCACCAGTTCATCGACTCACTGCCTGATAAATACAA					
	CACCAGAGTAGGAGACAAAGGCACTCAGCTGTCGGGTGGGCAGAAGCAGCGCATCGCCAT					
	CGCACGTGCCCTCGTCAGACAGCCTCACATTTTACTTCTGGACGAAGCAACATCAGCTCT					
	GGATACAGAAAGTGAAAAGGTTGTCCAGGAAGCGCTGGACAAAGCCAGGGAAGGCCGCAC					
1.5	CTGCATTGTGATCGCTCACCGCCTGTCCACCATCCAGAACGCGGACTTGATCGTGGTGAT					
15	TGAGAACGGCAAAGTCAAGGAGCACGGCACCCACCAGCAGCTGCTGGCGCAGAAGGGCAT					
	CTACTTCTCAATGGTCCAGGCTGGAGCAAAGCGCTCATGAGCTGTGACTATCTGAGGTGC TAAGTATTTTAATATTGGTGTTTTAAACATGGCACCAAACCAAAGTTAAAAGGCAAGGGC					
	TGTTAAAGGTAACTCCATCAAGATGAGAAGCCTTCCGAGACTTTGTAATTAAATGAACCA					
	AAATCGGAAACAAACAAACAAACAAACAAACAAGCCATAGTTAAACAGGGCCATGTTTTT					
20	AATTGCATTACGTGATTCATAAGAGAACATATAGTTTTTTAAAATAAAATGTATAATTTT			-		
	GTTTCAGTTTTTAATTTCTACCCTACTTTCTTAAATGATTATAAAGATTGTAAAAAGCAC	,				
	TATTTCTTAAATTGCCTATAAAATTAAATTTTCATAT			•		
	>M_1.0.0_6080 Mus musculus retinol binding protein 2, cellular	(Rbp2)	mRNA	cr: gi-667	7686///	
25	[Mouse_jongleur_201102.2997.C1] [SEQ ID NO: 33]					
23	AGCTAAAGACAGGGCCCTTTCTTTGTTTCACTGCTTATTTTGACCTGCGTGCAACTTCAC TAAGCAATGGGCCCTCAAGAGACTAGGTTTCCTGTCTGTTTTCCCCTTCTTGTCTTATATC					
	AGCACCAACAGCTCTTTCTCTCTATGCCCATTTACACCCCAGGCTTCCTGCTCACCACAAT	•				
	TAATAGCCCTTCTTATCTTCAGCCCCACCCCACCAGGCCAGCCTTTCCTTATATTCTTGCA					
	TGCAAGGCCTGTGAGGTTTGGGGGGACTGTTTTAAAGTGCTTAAATCTGAATGTGGAAGG					
30	CAAGTGATGAATCCCCAAAGGTCCTTTCTGTCCCATTCTGCTGTCACAGGTCACAGTTCA				•	
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	CTTGCAGACCTGGAGAGAGAGAGAGAGAGAGAGAGAGAGA					
	GAGAGAGAGAGAGAGAGAGAGAGAGTCAGGAGGTGGGGAGGCTGTTAAATATAAC					
35	CCACAGAGCTTTTGTGAACTGAGACAAAATGAAGTTCAAGTGTGGCTTGGCACAAGAACA GTTCCTCAGATGTAAAAACCCACCATGAGCTTCACTGGCCAAATCAATGCTCCTTATGTG					
33	ATAGGCAGGCCTGGCTCCGGTGTCCTGCAGAACGTGTGGGACAAATCAATGCTGCTTATGTG					
	TTCCTTAGGAACTGATGGAATGTTCTGTGTGAGGCCAGGACTCTGTGGGAGGCCAGTGAG					
	CCTAAAATGAGCTGCTCCAAGGCAGTGTGTCATGGAGATCACAGGGACACGCAGACCTGG					
	CAACGCAGGACTTTGTGCCTGGACTGCCCACAGACCTGTTGAACTTTGCAAAGGCAAGG					
40	$\tt GCAGTTCCTTTGAGCTGGGCTTATGACCTTTGACTCTATTATCTTTATATACCTGGTCCA$			-	•	
	$\tt CTAAGCTATAAAAGCAGTAACATTTAGCATAGTCTCCCTACAGCCTGTTCCTTCACAGTC$					
	ACTGAACGTCCATATCAAACCAGAGGCCACCATCATGACGAAGGACCAAAATGGAACCTG					
	GGAAATGGAGAGTAATGAGAACTTTGAAGGCTACATGAAGGCCCCTAGATATTGATTTTGC CACCCGCAAGATCGCAGTGCGTCTGACTCAGACGAAGATCACTCAAGACGGTGATAA					
45	CTTCAAGACGAAAACCAACAGCACGTTCCGCAACTACGACCTGGATTTCACCGTCGGGGT	•				
	GGAGTTTGACGAACACAAAAGGGCCTGGACGGCCGACATGTCAAGACCCTGGTCACCTG					
	GGAAGGCAACACCCTCGTGTGTGCAGAAAGGGGAGAAGGAGAACCGTGGCTGGAAGCA					
	GTGGGTGGAGGGAGACAAGCTGTACCTGGAGCTGACCTGCGGCGACCAGGTGTGCCGACA					
~~	AGTGTTCAAAAAGAAGTGATGGGCACGGGAAAGCCTGGAACATGTGCAGAGTTCTCTGCC					
50	AGTTCCCCAAAGCAGCATGGGGACTCCTCCCATTCCTGACAGAGCCCCCTTACATCATCT					
	GCCTGGGTTTAAACTGGAGTGTATAAAAGGAACCTA	2010041-	\D377		222000	,,,
	>M_1.0.0_10044 Mus musculus RIKEN cDNA 2010003F10 gene (201000 [Mouse jongleur 201102.5595.C1] [SEQ ID NO: 34]	SEIOKIK	), illedan	CI: gi-2.	1312909/	//
	AAGCCTCCCACCTGTTTAACTCCGGAGCCTGGCACTTCCTTC					
55	GCTCCTGCCTGTTTGGAAGCCTCAGACATGTGTACTGGAAAGTGTGCGCGCTGCCTGGGG					
	$\tt CTCTCCCTCATCCCTCTCCCTGGTCTGCATCGTGGCCAACGOACTCCTGCTGGTACCT$					
	GATGGGAAGACCACCTGGACGGACGGCAACCTCAGCTTGCAAGTTTGGCTCATGGGTGGC			•		
	TTCATTGGAGGGGCCTGATGGTGCTGTCCAGGAATTGCAGCGGTCCGGGCAGGGGGA					
60	AAGGGCTGCTGCGGTGCAGGTTGCTGTGGCAACCGCTGCAGGATGCTGCGCTCCTTC					
00	TCCTCCGCCTTTGGGGTGCTTGGCGCCCATCTACTGCCTGTCAGTGGCGGGAGCTGGGCTC CGAATTGGACCCAAATGCTTAATAGACAACAAGTGGGACTACCACTTCCAAGAAACAGAA					
	GGCGCTTACTTGCGAAATGACACTCTTTGGAATTTGTGTGAGGCGCCACCTCACGTGGTA					
	CCCTGGAATGTGACACTCTTCTCAATCCTGGTGGTCGCATCAAGTCTGGAACTTGTGCTG					
	TGTGGAATTCAGCTGGTGAATGCGACCTTTGGTGTGTTGTTGTGCGCGATTGCAGGAAAAAG					
65	GAGGGTTTAGCTCACTGAGTACCATAGGCCACCCCTAATACCTCATTTCTGGAAGTCTGA			* '		
	GTGGTCACCCACTCCCTGGTTGGCTAGGGAAAAAAAAAA					-
	CGTTCAGGCTCTTCCTTAGTGGAATAAACCACCCTGAGCCCCTTCCCCCAGTTCTGGTTT					
	AGCCTTTGGAAAGAGTGTACGTGGGCCTTCAGAGATATGTGTCTAGACTTGGGGCTTCTA					•
70	TATGTACCTCCCACTCTACCCACAACCCCCCCCCTCTTGTTATTCTCTTAACAACAAC AACATAGTTATTGTTCTGGAAATAAAAATCTGTGCTCTCAAGG					
/ ( )	undividitationocumumumiclasacicicumaa					

>M_1.0.0_27805 Mus musculus similar to SI:PACKT90.1 (novel protein) [Danio rerio] (LOC223845), mRNA cr: gi-23621104/// [Mouse_jongleur_201102.21254.C1] [SEQ ID NO: 35] GTGACCCGGGGGGCTGCCTCCTTGAACTGACCACACAGCTGACGATCATCATGGGGGGAA  ${\tt AGGCAATCTGGAACAACATACAAGAAGTCTTGCTCCCATGGGTTATGAATCTAATTGGAC}$ GATATAAAAGAGTCTCGGGATCAGAAAAGATAACCCCACGATGGGAACAGGATTACCATC  ${\tt TGCAGCCCATGGGCAAGCTGGGATTGTTCTATGAGTATCTTGAAATGATTATTCAGTTTG}$ GGTTCGTCACTTTATTTGTGGCCTCTTTCCCACTGGCTCCCCTGCTGGCTCTGGTGAACA ATATTTTGGAAATAAGAGTGGACGCGTGGAAGCTCACAACCCAGTTTAGGCGCATGGTGC  ${\tt CCGAAAAAGCCCAGGATATCGGCGCGTGGCAGCCCATCATGCAAGGAATAGCCATCCTGG}$ 10  $\tt CCGTGGTGACCAACGCCATGATCATTGCTTTCACATCAGACATGATCCCCCGCCTGGTGT$ ATTATTGGTCTTTCTCTATCCCTCCCTACGGGGACCACACTTATTACACCATGGACGGCT ACATCAACAACACTCTCTCTCTCTCAACATCACGGACTTCAAGAACACAGACAAAGAAA  ${\tt ACCCATACATTGGGCTTGGTAACTATACCTTGTGCAGGTACCGTGACTTCCGAAACCCAC}$ CTGGGCACCCACAGAGTATAAACACAACATCTACTATTGGCACGTGATTGCCGCCAAGC 15 TGGCCTTCATCATTGTCATGGAGCACATCATCTACTCTGTGAAGTTCTTCATTTCCTACG CAATTCCAGATGTGTCCAAAATCACGAAAAGCAAGATCAAGAGGGAGAAATACCTCACGC  ${\tt AGAAGTTGCTTCACGAGAGTCACCTCAAAGACCTGACCAAAAACATGGGGGATCATCGCCG}$  ${\tt AGAGGATAGGAGGAACGGTTGACAACAGCGTGCGGCCAAAACTCGAATGAGCGGGAGCTT}$ TAGGCCTGGAGAAGCACTTTAAAGAGAATTAGCTGTCAGACGTGTGTGAAGCACTAGAGA  ${\tt GGATGGCATTGGAACTCCTAGGCAGGCGGAGTCTTGCCCATGCCCATTTCTGCCTGTGTC}$  ${\tt ATCTTCCAGTTTCAGCAAGCAGTGTGGAAACTGGAGAAACTGATCAGGCAGAGC}$ CTAAAACCACCTACCTGGAGGTCCTGAACATGCTCCCTCTTTTGATAAATTGGAATTTTA GTAACAGGAAAAAAGCCCTGAGGTGTGCCCAAGTTCTCCCCGGGACTTCGCTTTTCTGA  ${\tt CCTCACGTGTGCAGAGCTCCTTTTCTGTGCTTAATTTTGCATTTTGCCAAATCTATCCCA}$ GACCTATTTTGTCCGGACAGCACCATCACCAAAGACCAGGCAGACCTCAGCCTTAATCGC  $\tt CTCTGTGTTATCAACAATAGCCAGCTCAGGATTGAGTTTGGATGCTGTTTAGGTCCCAG$ CGCTGCGTATGAAACAGCTTCTGTATCATTTCAGCCTGTATTTCCACCTCCAAGAAATAC 30 CACGGTGACATTTGCTCTCTAGCAATACTCCCAGCATGCTCTGGGTCTGACCAATGTTGA  $\tt CTGGCTTTCAGATCTTAAGGGTATATAAGATGAAAAGGTAGCAGCCCTTGTTGATCTGAA$ CGGTTAATTTATCTCTTCTTGGTAGATGATAATCAAATGATTGTAACTGTCTCGTCCTCA  $\tt GCATCATGGGCCGGGAAGCCCATCCACTTCATGAGAACGGACTTAGCAGATGCAGAAGGG$  ${\tt TGGCACTACCAATCAC@AAGCGCCTTCTGCCTTGCTCGCTGAAAAAGGCTGGTGGCCTGA}$ 35 CGACACTGGGCGTAGTCAGAGCAACAGCCAGCTACCCAATCACTAGCCATATCCTGTGAT  $\tt CCCTCTGTGGCAGATGTCACTCACTGGGAACCCTACTGACTTCTCTGCTTGCCACGGTGA$ CCAGCTTCCTTGCCCAGCTCCATTCGTTGCCTGCTAACTCGTTTGTAATCACAGCTGGGC  ${\tt GCCCCAAGCCTCCTCAAGCCATCAGGGGGGTTATGGGAAAGGCTGGTTTATCTGCTGGT}$ 40  $\tt GGCTTGCTGCGAAGCCTCAGCTTCCTAGTGCCTTGCCTCGTTGCTTGGCTGAGCAG$ CTCGCACCCTTGACTGATCACAGAGGTCAGTGCTGGGTGAAGAAGGGGAGGACCTGCCTCA  $\tt CACTGTTTGGGGATCGGGCCGCTGCTGACTGGATGGGTGTGGAATGCCTCGGTGCCTAGG$ AACCAAGCCAAGGAAAGTGAGCGGTTTTAGAGACTGCCTTCTCAACACCCCGTGGTATTAA 45 ATGCCCACCACGAATGATTACTAGAGAATTGAGAATCAACATGATTAATCAAAGCAGTG  ${\tt TTCTGGGCTTTTGAGTAGCCCAGGGGGTCAGTGTGGGAGTATTTCCCCTCCTCCTTGTC}$  $\tt CTGGGAGTCCAGAGCCCGCCATACAGTGTCTATCTGTGCTGAGATAAAAATGACTACCTT$  $\tt CCTCCCTGAGGGATGCTCTCATTGCACAGCTGAAACCAAGTGCCACTCCTTGCCCCTACC$ CCCAGATTGCCCTGGAGTGCCCTGCTCCCTCTGTTACCTCTTTTCCAGAGCCTGTGCTCA 50  $\tt CTTTCTTTGTAGACACAAAGAAAAATGTCAAATAAAAAGTGCATTTCTTCATCTATATTC$ CCCAGCCAAGAACTCCCTTCACAAAGTAGAAAGTACCACTATGGACAGAAGAAGGAGGAA AAAAAAAAAAAAAAAAAAAAAAAACTTCCTTTTCTGAAAGGAGCACTCATGGCATCTG ATGCTACCAGAATGCTGAATGACAGCAAGGTTGCTGTGAGCTGTAGGTTCCCAATGGCGT 55  ${\tt CAGTGTCATTCCTATGAGGCCTGTGCCAAGTTGGTGATGGATAGGAACAGGGGACACCTT}$  ${\tt CGGTGGCAGTGAGGTAGACCCCAGGCCCAGGAAAACCAAGGGCATGACTGTGGCCACCCA}$ CCTGTCTAGCATGAGCCACTAGAGAAGTTCCATCCTTTTGTAATGCCTTTGCATTTTAAT GGATTAATGTGGTAGACCCAGTACTCAGGGGATTTT'L'CCTTAAATGCTCCTCGGATGTTT TAGGTATTCCGTTAGAAGTAGAAGACCACAATTTTTCTTGAAATTGAAAGAGGCCGTCTG 60 GTAATGAGTTTGTCAAGGTTTCCCCTTTGCAGGGCACGTGGGTCTTGAGTTTCATAGGAC ATCCGTTTGTGATGGGGCAGAGCGGGGTGAGTTGGTCTCACAGGTCTTGTCTCCTTG  ${\tt TGTTCGTTCCTACAATGGTTGAGAAGTGGAGACAGTGCAGAGCTCAGCTGAAAAGGGACT}$  ${\tt CGTGATGCTTCCCATACACTGTGTCCCCGGTGTAATGTTTGTAACTGATGTCTGTTAATT}$  ${\tt TCTATGCAT'ITTAATATTTTTTAATTAATGAGCATTTTAATAAAATCAGTTTTACAAAC}$ >M_1.0.0_662 Mus musculus fatty acid binding protein 2, intestinal (Fabp2), mRNA cr: gi-6679736/// [Mouse_jongleur_201102.16 C571] [SEQ ID No: 36] 65 CCGACCTCTGCTTTCCTAGAGACACACACAGCTGAGATCATGGCATTCGACGGCACGTGG AAAGTAGACCGGAACGAGAACTATGAAAAGTTCATGGAGAAAATGGGCATTAATGTGATG AAGAGGAAGCTTGGAGCTCATGACAATCTGAAACTGACAATCACACAGGATGGAAATAAA 70 TTCACAGTCAAAGAATCAAGCAACTTCAGAAACATTGATGTTGTGTTTGAGCTCGGTGTA AACTTTCCCTACAGTCTAGCAGACGGAACGGAGCTCACTGGGGCCTGGACCATTGAGGGA

	AATAAACTTATTGGGAAATTCACACGTGTAGACAATGGAAAGGAGCTGATTGCTGTCCGA			
	GAGGTTTCTGGTAATGAACTAATCCAGACCTACACATATGAAGGAGTTGAGGCCAAGCGA			
	TTCTTTAAGAAGGAATAAGTCAACTTCTCAGAGCCTGGAGCAACGCTGAAGAGCTAAGCT			,
	GATGTCAGATTTCTTCTCCATCATGCTAATGCCAGGCTCATTCGTCATCCTATCAGCAC			. •
5	TGGTCTCCAGCCTTGTCAAAGCTAAAGAAGTAAAAGCTAATTAAAAGAACTTCATTTGTT			
	TTATGGTCCTTAAGCTATACATGAACTAGTCTTTTAAAAGAAAATAAAT			
	AC			
	>M_1.0.0_7665 Mus musculus defensin related .cryptdin 6 (Defcr6), mRNA cr: gi-13937346/	//		
	[Mouse jongleur 201102.3937.C10] [SEO ID No: 37,38,39,49]			
10	GACAGCTGCCTCATCCTAATCCATCCAGGTGACTCGCAGCCATGAAGACACTAGTCC	,		
	TCCTCTCTCCCCCCCTCGCTGGCCTTCCAGGTCCAGGCTGATCCTATCCAAAACACAG			
	ATGAAGAGACTAAAACTGAGGAGCAGCCAGGGGAAGAGGACCAGGCTGTGTCTGTC			
	TTGGAGACCCAGAAGGCTCTTCTCTCAAGAGGAATCGTTGAGAGATCTGGTATGCTATT			
	GTAGATCAAGAGGCTGCAAAGGAAGAGAACGCATGAATGGGACCTGCAGAAAGGGTCATT			
15		•		
13	TATTGTACACGCTCTGCTGTAACATGGAGACCACAGAGGACAACAGACGACCATGAG			
	TACTGAGGCCACTGATGCCTGATGACCACTTCTCAATAAATTGTTCGCAATATG			•
	аааааа			
	>M_1.0.0_7656 Mus musculus defensin related cryptdin, related sequence 10 (Defcr-rs10)	, mrna	cr:	gi-
20	6681162/// [Mouse_jongleur_201102.3937.C1] [SEQ ID NO: 40,47]			
20	ACACATTTGAGCCCTGCTCTCCAATCATCTAGGTGACTCGCAGCCATGAAGAAACTTGTC			
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	GATGAAGAGCTAAAACTGAGGGGCAGCCAGGGGAAGAGGACCAGGCTGTGTCTCC			
	TTTGGAGACCCACAAGGCTCTGCTCTTCAAGATGCAGCCCTAGGATGGGGTCGGCGGTGC		•	
	CCACCATGCCCCAGATGCCCGTCATGCCCCATGGTGCCCCAAGGTGCCCGAGG			•
25	TGCAAATGCAATCCAAAATAAGCCTGCAATTGGCACCAAAGATCCAAATAAACAGCATAA	•		
	ATTCTGCTGCAGCTGAGCATGGAATCTGGGTCAAGATAACCATGTTCTTTGGAACCTCAC			
	TATCTGTCAAGACCCTTGTTCTTAGCCTTTGATTGCTCTTGCTTCTCCAATAAACTCCTTG			
	CAGA			
	>H_1.0.0_52731 Human RASF-A PLA2 gene encoding synovial phospholipase, exons 2 through	5 si.	ori -	
30	190885/// [Human_jongleur_201102.cl.9676.singlet] [SEQ ID NO: 41]	5 51.	9-	
	GAATTCCTGCTCATTCGCTGCCTTTGAGAGTGGCTGTGTTGTGCATGCA			•
	TGATATGTATGAGGGGTGTGTGTGTGAGTGTGTTGAGTGAGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT			
	AAGAGAGATGTTGGCACTATCAGGTAATTACGAGAGTGTGTATATGGGCATAGGTGT	,		
	GTTAACATGTATGTGTTTGGGAACTTGTGTATGTGGAAGGGGTTAGAAGAGGCCTAGAAGAG			
35				
33	AGAGGTTGATGCTTCATTCTGGAGGAAAATACTGAGGCCGAGCCTCCATGGGTGCCTTG			
	GAGACTCCAAGCCTTGAATCCAGTGTGGGGATATGCAAGCTATGTCTAGCGAGGGACACA			
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	ACTCTCAGTCTGATGACGGTACAGGGGAGGTCTCATTAGTGTATCATGGGGTTCTCCACA			
40	GGTCTGAGGGCCTGATGTGTGAAACCATTCTGCAGAGCTGGGAACGGGTCAGGAGGTG			•
40	GTTGTGTGTGTGTGTGTGTGTGCATTGCTGGAGGGCACTCCTTGTGTGCTCTGA			
	GTGTGACAGAGGAAGTCACCCTGGACTTAGGTTGGATGGGAGAGCCATGTCTGTGTGTCT	•		
	CAGAGCCACCAAGGAGGAGCAGGGGGAGCGGCCGGGGCAGAAGTTGAGACCACCCAGC			
	AGAGGAGCTAGGCCAGTCCATCTGCATTTGTCACCCAAGAACTCTTACCATGAAGACCCT			
	CCTACTGTTGGCAGTGATCATGATCTTTGGTAAGAGCTGACCCTGACCTCTGAGCATGGG			
45	GGACAGCCCCAGAAGGGAAGCACTCTTGTCCCTTAGTTTTCTCTCCCATTGCAGTGATCC			
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	AGGAAGCCGCACTCAGTTATGGCTTCTACGGCTGCCACTGTGGCTGGGTGGCAGAGGAT			
50	CCCCCAAGGATCAACGAATCGGTCAGGCCACCTATCCCTCCC	•		
50	GCCCAGGCAGGGCTGCAAAGACAGTGCCGGTTCCTGATGGGCGCAGAGGTCTC			
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	AGTCACTGGGTCTCTGCCCAGGGTCCAAGGGGTTGAGACCACAGGCCTCCTGG			
55	AGCTGTGGGACAAGAGCCCCAACAGGTGTCTCCTCACAGCTGCTGTTCACTCATGACTG			
22	TTGCTACAAACGTCTGGAGAAACGTGGATGTGGCACCAAATTTCTGAGCTACAAGTTTAG			•
	CAACTCGGGGAGCAGAATCACCTGTGGTAAGAGTCCTACCTCACCATCGAGTGGCCCTCA			
	TTTGTTTAGACAGTGCTGGGACTGTGCTGGGCACCAAAGATAGACACAGAGGGACACAGT			
	TCCTGCTTCAGGAAGCTCACGGTTGAGTGGGAAGCCAGGAAAGTGAAAATCCAATGTAGT			
<b>CO</b>	AAAGACTCCAGTGGGAAGTAAACAAACAGATAAGGCATTAACACAGCCTGAGGCTTGAGG .			
60	AAGGCTCCTGGAAGGGGTGACCCCTAAGCTGAGAGGCTGTGCAGAGAGTCAGGG			
	AAGAGGAGGAGCATTCCCAGAAGAGGACACAGCATGGTCAAAGGCACTAAAGGGCACTG			
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65	AGATGACTCACTGTGGGGACAGGGTCGATGGACAAGTGGAAGGGGGGCAGAGAAGCTA			
	TTGCCATCATGCAGGCAAGAGGGAGTAACATCTTGACATAAAACAATGGAGGTCAGGATG			
	GGAAAGCTGGAGAAAAAATCAAGATGCATTTGAGATGGAATGCAGCTGAACTGGTGACTG			
	AGTTGGGAGGGAGAGGGAGTTGTTGGATGGATATGTGGCTGCATGGATGG			
	ACTGTGATAAAGACCATGGGAGCAGGTCATGGTGGAGGGTGGGGAGGAGCAGTTCTATTT			
70	CCAGCATGTTGAGTTTAGGGGCCTCCAGCACCAGGGAGGG			
	ATACAAATGCAGCTCAGGGGAGAATTCAGGACTGGGACACAGATTCAGAAGCCAGCAGCA			

	GAGACCTGAGAGGTGGGTGTGATCACTCATTTGCTGTTTTAAAGGCCCAGAAAGGAGACAG			
	AGAAGGGATGGACAGAGAGGGAGAAGGGGAACTGAGCGAGAAGGTCAAGGAGTCAGTAAG			
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5	GGAGGGCAAAGCCAGATTAGACCAGGTGGGGGCTGATGGGAAGCGAATAAAGACAGGAG			
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	CCTGCCCATGGCCTGAGTCCTTTAAGATCAGAAATTATGTCTCCCCATCATGGCCTCTCCA			
	TAGAGGCATGTATCTTCAGCAGGCGTTAGGTCACAAGCCACATGATGCCAAGCTGACAGT		•	
10	GGCTTGCATAATGGGGATATGTGACTGTCGCATAACTAGAATTCTGGAAGAGTGCAGTGC			
_	CAGGCTTGGGGCAGCTTTCCAGCCATGTCATTAAGAATCCAGCCTTCTCCTGGCCTTCAG			
	CTATGCCACGTGGCCAGTGTCTACACCTGGGATGTCAAGAGACAGGCTGCAGGTCCACCC			
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15	AGGTTACATGATACACAAAGACCAATCACTGCAAAGGAAAAAGGGATGACCCTGCCTG			
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	CCCATTGGTCAGAAATATCTGGAGCGCAGGTGTTTGTCTCCAACTAGGAGCTTCTGGAGG			
20	ACAGGGCTGTGTCTTCTACCCCAGGGTTCCACAAGAAGCCACTGAATATTAATAAAGTCC			
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	ACCAGTACTATTCCAATAAACACTGCAGAGGGAGCACCCCTCGTTGCTGA			
25	>H_1.0.0_11184 Homo sapiens intelectin (ITLN), mRNA cr: gi-8923027///			
25	[Human_jongleur_201102.4257.C2] [SEQ ID NO: 42]	,		
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30	CTAATACTTACTTCAAGGAATGGACCTGTTCTTCGTCTCCATCTCTGCCCAGAAGCTGCA			
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	TGGCCAGCGTGCATGAGAATGACATGACGTGGGAAGTGCACGGTGGGCGGTGGACCCTGG			
	GTCAGCAGGGCAACGAAAGCAGACTACCCAGAGGGGGACGGCCAACTGGGCCAACTACAACA			
	CCTTTGGATCTGCAGAGGCGACCACGAGCGATGACTACAAGAACCCTGGCTACTACGACA			
35	TCCAGGCCAAGGACCTGGGCACGTGCCCAATAAGTCCCCCATGCAGCACTGGA			
	GAAACAGCTCCCTGCTGAGGTACCGCACGGACACTGGCTTCCTCCAGACACTGGGACATA			
	ATCTGTTTGGCATCTACCAGAAATATCCAGTGAAATATGGAGAAAGGGAAAGTGTTGGACTG			
	ACAACGGCCCGGTGATCCCTGTGGTCTATGATTTTGGCGACGCCCAGAAAACAGCATCTT			
	ATTACTCACUCTATGGCCAGCGGGAATTCACTGCGGGGATTTGTTCAGTTCAGGGTATTTA			
40	ATAACGAGAGAGCAGCCAACGCCTTGTGTGCTGGAATGAGGGTCACCGGATGTAACACTG	•		
	AGCACCACTGCATTGGTGGAGGAGGATACTTTCCAGAGGCCAGTCCCCAGCAGTGTGGAG		•	
	ATTTTCTGGTTTTGATTGGAGTGGATATGGAACTCATGTTGGTTACAGCAGCCGCGTG		•	
	AGATAACTGAGGCAGCTGTGCTTCTATTCTATCGTTGAGAGTTTTTGTGGGAGGGA		• .	
4.5	GACCTCTCCCCAACCATGAGATCCCAAGGATGGAGAACAACTTACCCAGTAGCTAGAA			
45				
	TGTTAATGGCAGAAGAGAAACAATAAATCATATTGACTC			•
	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: qi	-668117:	2///	•
	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse jongleur 201102.3937.C3] [SEO ID NO: 43]	-668117:	2///	
	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCCTCTCTCTCCTCTCTCCTGCCTG	-668117:	2///	
50	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC  >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43]  ATGAAGACATTTGTCCTCCTCTCTGCCCTTGTCCTGCTGCCTTCCAGGTCCAGGCTGAT  CCTATCCACAAAACAGATGAAGAGACTAATACTGAGGAGCAGCCAGGGGAAGAGGACCAG	-668117:	2/// 	•
50	TGTTAATGGCAGAAGAGAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCCTCTTGCCCTTGTCCTGCTGGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGAGCTAATACTGAGGAGCAGCCAGGGGAAGAGGACCAG GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTTCATGAAGAATTGTCAAAA	-668117:	2///	
50	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC  >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43]  ATGAAGACATTTGTCCTCCTCTCTCTCTCTCTCTCTCTCT	-668 <b>117</b> :	2///	
50	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC  >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43]  ATGAAGACATTTGTCCTCTCTCTCTCTCTCTGCCCTTGTCCTGCCTG	٠,		inaga)
50	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC  >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43]  ATGAAGACATTTGTCCTCTCTCTCTCCCTTGCCTGCCTGC	(NEP)	(Enkephal)	inase)
50	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCCTCTGCCCTTGTCCTGCTGGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGACTAATACTGAGGAGCAGCCAGGGGAAGAGGACCAG GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTTCATGAAGAATTGTCAAAA AAGCTGATATGGTATTGTAGAATAAGAGGCTGCAAAAGAAGAAGACGCGTTTTTGGGACC TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGTAGCTGA >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC  >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43]  ATGAAGACATTTGTCCTCCTCTCTGCCCTTGTCCTGCTGGCCTTCCAGGTCCAGGCTGAT  CCTATCCACAAAACAGATGAAGAGACTAATACTGAGGAGCAGCAGGGGAAGAGGACCAG  GCTGTCTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTTCATGAAGAATTGTCAAAA  AAGCTGATATGCTATTGTAGAATAAGAGGCTGCAAAAGAAGAGACGCGTTTTTGGGACC  TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGTAGCTGA  >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human jongleur 201102.11097.C4] [SEO ID NO: 441]	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC  >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43]  ATGAAGACATTTGTCCTCCTCTCTGCCCTTGTCCTGCTGGCCTTCCAGGTCCAGGCTGAT  CCTATCCACAAAACAGATGAAGAGACTAATACTGAGGAGCAGCAGGGGAAGAGGACCAG  GCTGTCTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTTCATGAAGAATTGTCAAAA  AAGCTGATATGCTATTGTAGAATAAGAGGCTGCAAAAGAAGAGACGCGTTTTTGGGACC  TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGTAGCTGA  >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human jongleur 201102.11097.C4] [SEO ID NO: 441]	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC  >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43]  ATGAAGACATTTGTCCTCCTCTTGCCCTTGTCTGTCTGGCCTTCCAGGTCCAGGCTGAT  CCTATCCACAAAACAGATGAAGAGAGCTAATACTGAGGAGCAGCCAGGGGAAGAGGACCAG  GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTTCATGAAGAATTGTCAAAA  AAGCTGATATGCTATTGTAGAATAAGAGGCTGCAAAAGAAGAACGCGTTTTTGGGACC  TGCAGAAATCTTTTTTTAACTTCCGTATTCTGCTGTAGCTGA  >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687// EST390530 Homo sapiens cDNA /gb=M976421 /gi=8169687 /ug=Hs.30	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
55	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCTCTGCCCTTGTCTGCTGCTGGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGACTAATACTGAGGAGCAGCCAGGGGAAGAGGACCAG GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTCATGAAGAATTGTCAAAA AAGCTGATATGGTAGTAAGAATAAGAGGCTGCAAAAGAAGAGACGCGTTTTTGGGACC TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGTAGCTGA >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44] CCTTTCTAGGACAACCTAATGTTATCTTGTATTGTGTGCCCTCTCTTGTTAATCACC CTCAAGTCAGTACAGTGACCCCIAGGGCCCATTTTCTTTTGAAGAATTCCCCATTT CTGTGGTGTTGGCAAGTCTAGCCAAGGCTGCAATGCTTCTTTTTGAAGAAATCACCAAACCC	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCTCTGCCCTTGTCCTGCTGCTGCTGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGAGCTAATACTCAGGGAGCAGCCAGGGGAAGAGGACCAG GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTTCATGAAGAATTGTCAAAA AAGCTGATATGCTATTGTAGAATAAGAGGCTGCAAAAGAAGAGAGACGCGTTTTTGGGACC TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGTAGCTGA >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687/// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44] CCCTTTCTAGGACAACCTAATGTTATCTGTATTGTGATGGTGCCCTCTCTGTTAATCACC CTCAAGTCAGTACAGTGACCCCTAGGGCCCATTTTCTTTTCGATTAGAGAATTCCCCATTT CTGTGGTGTTGGCAAGTCTAGCCAAGGCCTGCAATGCTTCTTTTTGAAGAATTCCCCATTT CTGTGGTGTTGGCAAGTCTAGCCAAGGCTGCAATGCTTCTTTTTGAAGAACCC GGCACTTCTTTTCTGGATTCATGTATGAATTCTTGCGCCGGCAGTGAAAGCCT	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
55	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCCTCTTGCCCTTGTCTGCTGCTGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGGACTAATACTGAGGAGCAGCCAGGGGAAGAGGACCAG GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTTCATGAAGAATTGTCAAAA AAGCTGATATGCTATTGTAGAATAAGAGGCTGCAAAAGAAGAGAGACCGCTTTTTGGGACC TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGTAGCTGA >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase 2 gi-8169687// EST390530 Homo sapiens cDNA /gb=M978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44] CCCTTTCTAGGACAACCTAATGTTATCTGTATTGTGATGGTGCCCTCTCTGTTAATCACC CTCAAGTCAGTACAGTGCCAAGGCCCATTTTCTTTCCATTACAGAAATTCCCCATTT CTGTGGTGTTGGCAAGTCTAGCCAAGGCCTGCAATGCTTCTTTTTGAAGAATCCCCAAACCC GGCACTTCTTTTCTGGATTCAGAAATTCTCTGAAAATTCTCTGAAGAATCCCCCAACCC CTCCAAGAGTTCTGCAAAAGTCCCAAAAATTCTCTGCGGCAGTGAAAGGCTTCTTGAAAACT CTGCAGAGTTCTGCAAAAGTCCCAATAATTCTTGCGGCAGTGAAAGGCTTCTGAAAACT	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
55	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC  >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCCTCTGCCCTTGTCTGTCTGGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGACTAATACTGAGGAGCAGCCAGGGGAAAGAGGACCAG GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTCATGAAGAATTGTCAAAA AAGCTGATATGCTATTGTAGAATAAGAGGCTGCAAAAGAAGAGAACGCGTTTTTGGGACC TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGTAGCTGA >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44] CCCTTTCTAGGACAACCTAATGTTATCTGTATTGTGATGTGCCCTCTCTGTTAATCACC CTCAAGTCAGTACAGTGCCAAGGCCCAATGTTTCTTTCGATTACAGAATTCCCCATTT CTGTGGTGTTTGGCAAGTCTGAGGCCCAATGCTTCTTTTTGAAGATCCCCAAACCC GGCACTTCTTTTCTGGATTCATGTATGTGAGGCTTCTTTTTGAAGACCC GGCACTTCTTTCTGGATTCATGTATATCTTGCGGCAGTGAAAGGCTTCTGAAAACT CTGCAGAGTTCTGCAAAGTCCCAATATCCTGAAATTCCTGGACTGTGCACATCTGTTT TAATGGAGTTAACCGCATACTTGGCCTATAGGTTCCCACACCACCCTGTGCAAAGTTCA	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
55	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC  >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCTCTTGCCCTTGTCCTGCTGGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGAGCTAATACTGAGGAGCAGCAGGGGAAGAGGACCAG GCTGTGTCTATCTCCTTTTGGAGGCCAAGAAGGGTCTGCTCTTCATGAAGAATTGTCAAAA AAGCTGATATGCTATTGTAGAATAAGAGGCTGCAAAAGAAGAGAACGCGTTTTTGGGACC TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGAGCTGA >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44] CCCTTTCTAGGACAACCTAATGTTATCTGTATTGTGATGGCCCTCTCTGTTAATCACC CTCAAGTCAGTACAGTGACCAAGGGCTGCAATGCTTCTTTTGAAGAATTCCCCATTT CTGTGGTGTTGGCAAGTCTAGCCAAGGGCTGCAATGCTTCTTTTGAAGACTCCCAAACCC GGCACTTCTTTTCTGGATTCATGTATGAAATCTTCTGCGCAGAGGCTTCTGAAAACT CTGCAGAGTTCACCAAAGTCCCCAATAATCCTGAAATTCCCTGGACTGTGCAAAAGCT CTGCAGAGTTCACCCAAAGTCCCCAATAATCCTGAAATTCCCTGGACTGTGCAAAACT TCTGCAGAGTTCACCCAAAGTCCCCAATAATCCTGAAATTCCCTGGACTGTGCAAAAGTTCAAAACT AAGAAAAATAGTTGTTTTGTGATTTAGGTCCACGCACCCACC	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
55	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCCTCTGCCCTTGTCTGCTGCTGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGACTAATACTGAGGAGCAGCCAGGGGAAGAGGACCAG GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTCATGAAGAATTGTCAAAA AAGCTGATATGGTATTTTTAACTTTCGTATTCTGCTGTAGCTGA >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44] CCCTTTCTAGGACAACCTAATGTTATCTGTATTGTGATGGCCCTCTCTGTTAATCACC CTCAAGTCAGTACAGTGACCCCIAGGGCCCATTTTCTTTTGAATATCACCC GCCACTTCTTTTCTGGATTCATGTATGTATGTTTTTTTTT	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
55	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCTCTGCCCTTGTCCTGCTGCTGCTGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGAGCTAATACTCAGGGAGCAGCCAGGGGAAGAGGACCAG GCTGTGTCTATCTCCTTTTGGAGGCCAAGAAGGGTCTGCTCTTCATGAAGAATTGTCAAAA AAGCTGATATGCTATTGTAGAATAAGAGGCTGCAAAAGAAGAGAGACCGGTTTTTGGGACC TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGTAGCTGA >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44] CCCTTCTAGGACAACCTAATGTTATCTGTATTGTGATGGTCCCCTCTTGTTAATCACC CTCAAGTCAGTACAGTGACCCC1AGGGCCCATTTTCTTTTC	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
55	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCCTCTGCCCTTGTCTGCTGTGCTGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGGACTAATACTGAGGAGCAGCCAGGGGAAGAGGACCAG GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTTCATGAAGAATTGTCAAAA AAGCTGATATGCTATTGTAGAATAAGAGGCTGCAAAAGAAGAGAGACGCGTTTTTGGGACC TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGTAGCTGA >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase 2 gi-8169687/// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44] CCCTTTCTAGGACAACCTAATGTTATCTGTATTGTGATGGGCCCTCTCTGTTAATCACC CTCAAGTCAGTACAGTGACCCC1 AGGGCCCATTTTCTTTTCGATTAGAGAATTCCCCATTT CTGTGGTGTTGGCAAGTCTAGCCAAGGCCTGCAATTGCTTTTCGATTAGAGAATTCCCCAAACCC GGCACTTCTTTTCTGGATTCATGTATATAATCTTGGATGAGAACTCTGTTT TAATGGAGTTAACCGCATACTCTGGCCTATAGGTTCACCACACCCTGTGCAAAACCT CTGCAGAGTTCTGCAAAGTCCCAATAATCCTGAAATTCCTGGACTAGACACCTGTGCAAAACCT CTGCAGAGTTCTGCAAAGTCCCCAATAATCCTGAAATTCCTGGACAACCCC GGCACTTCTTTTCTGGATTCATGTATAAGTTCTTCTGGACAACCCC GGCACTTCTTTTCTGGATTCATGTATAAATTCCTGAAAATTCCCTGGACTTGCACAACCTTTTT TAATGGAGTTAACCGCATACTCTGGCCTATAGGTTCCACCACACCCTGTGCAAAGTTCA AGAAAAATAGTTGTTTTGTGATTTAGGTCAAGTCCACAAGACCTCTGTTCTTTTTCTTCCCCATTCTT TTTTAATATAATTCTGAATATAGGTCCAGTAAGCCTCCAGAACCTCCATTATCAGCAAAAGT TTTCTCCCCAGTGTATTAATTCCATTAAGGTGCTGTCACCACCACCCTGCCAGGACTCCAGAAAAGT TTTCTCCCCAGTGTATTAATTCCATTAAGGTGCTGTCCACCACCCTGCCAGGACTCCAGGAAAAGT TTCCCCCAGTGTATTAATTCCATTAAGGTGCTGTCCTCTTAAAGTTTCTTGCAGAACTTTTAGG TTCCCCAGTGTATTAATTCCATTAAGGTGCTCTCTTAAAATTTCTGCAGAACTTTTTCAGGTAAAACTTTTCTTCCCCAGAACTTTTTAGGTACAAAACTTTTTCTTCCCCAGAACTTTTTAGGTACAAAACTTTTTCTTCCCCAGTAAAACTTTTTCTTCCCCAGTAAATTTCCTTTTTCTCCCAGAAAAAAAA	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
55	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCTCTCTCTCCCCTTGTCCTGCTGGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGGACTAATACTGAGGAGCAGCCAGGGGAAAGAGGACCAG GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTCATGAAGAATTGTCAAAA AAGCTGATATGCTATTGTAGAATAAGAGGCTGCAAAAGAAGAGAACGCGTTTTTGGGACC TGCAGAAATCTTTTTTTAACTTCGTATTCTGCTGTAGCTGA >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44] CCCTTTCTAGGACAACCTAATGTTATCTGTATTGTGATGTGCCCTCTCTGTTAATCACC CTCAAGTACAGTAC	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
55	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC  >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43]  ATGAAGACATTTGTCCTCTTCTGCCCTTGCTGGCCTTCCAGGTCCAGGTCCAGGTGAT  CCTATCCACAAAACAGATGAAGAGACTAATACTGAGGAGCAGCCAGGGGAAGAGGACCAG  GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTCATGAAGAATTGTCAAAA  AAGCTGATATGCTATTGTACAATAAGAGGCTGCAAAAGAAGAGAACGCGTTTTTGGGACC  TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGTAGCTGA  >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687/// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44]  CCCTTTCTAGGACAACCTAATGTTATCTGTATTGTGATGGCCCTCTCTGTTAATCACC  CTCAAGTCAGTACAGTGACCCC1AGGGCCCATTTTCTTTTC	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
<ul><li>55</li><li>60</li><li>65</li></ul>	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43] ATGAAGACATTTGTCCTCTCTGCCCTTGTCTGCTGCTGGCCTTCCAGGTCCAGGCTGAT CCTATCCACAAAACAGATGAAGAGAGACTAATACTGAGGAGCAGCCAGGGGAAGAGGACCAG GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTCATGAAGAATTGTCAAAA AAGCTGATATGGTATTTTTAACTTTCGTATTCTGCTGTAGCTGA >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44] CCCTTTCTAGGACAACCTAATGTTATCTGTATTGTGATGGCCCTCTCTGTTAATCACC CTCAAGTCAGTACCACTAATGTTATCTTGTATTGTGTTGCCCTCTCTTTTAATCACC CTCAAGTCAGTACACTAAGCCCAAGGGCTGCAATGCTTCTTTTTGAAGAAATTCCCCATTT CTGTGGTGTTGGCAAGTCTAGCCAAGGGCTGCAATGCTTCTTTTTGAAGAACTCCCAAACCC GGCACTTCTTTTCTGGATTCATGTATGAATTCTTGCGGCAGTGGAAAGCTCTGTTTT TAATGGAGTTAACCGCAATAATCCTGAAATTCCTGAAAATTCCTGGAACACTCTGTTCAAAGTTCCAAAGTTCA AGAAAAATAGTTGTTTTGGATTGAAGTCCCAAGACTCCACACCTGTGCAAAAGTTCA AGAAAAATAGTTGTTTTGGATTGAGGTCCAAGGACTCCCATTATTCTTCCCCATTCT TTTTAATATAATTCTGATAGGCTCTGTAAGGTTCCACACCACCCTTGTGCAAAAGT TTCCCCAGTGTATTAATTCCATTAAGGTGCTCCCTTTAAAGTTCCTCATTATCAGCAAAGT TTCCACAGTCAACGAGGCTCCATTTTTTTTAAGTTACTTGCAGAAAGT TTCCACAGTCTAACCCACCACTCTGTTTAAAGTTTCTTCCCAGAAGCTCCCATTGGCCATTGGGCCATTGGGGCCATTGGGGCCATTGGGGCCATTGGGGCCATTGGGGCCATTGGGGGCCATTGGGGCCATGGGGAGAAAGT TTCCACAGTCAACGAGGCTCCATCTTTTTTTAAAGTTTCTCCCAGGACGAACCTGTTGAGGCCCATGGGGGCCATGGGGGCCATGGGGCCATGGGGGGGCTGCAGAAAGGCCCCCATTAAAGGACCTCCATTGCAAGACCTCCATGGAAGCCCATGGGGGGGCTGCAAGACCCCATTGTTTAAAGTTTCTTCCACAAGACCTGGCAAGACCTCCATGGCCAAGCCCACGCACG	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:
55	TGTTAATGGCAGAAGAGAAAACAATAAATCATATTGACTC  >M_1.0.0_7658 Mus musculus defensin related cryptdin 5 (Defcr5), mRNA cr: gi [Mouse_jongleur_201102.3937.C3] [SEQ ID NO: 43]  ATGAAGACATTTGTCCTCTTCTGCCCTTGCTGGCCTTCCAGGTCCAGGTCCAGGTGAT  CCTATCCACAAAACAGATGAAGAGACTAATACTGAGGAGCAGCCAGGGGAAGAGGACCAG  GCTGTGTCTATCTCCTTTGGAGGCCAAGAAGGGTCTGCTCTCATGAAGAATTGTCAAAA  AAGCTGATATGCTATTGTACAATAAGAGGCTGCAAAAGAAGAGAACGCGTTTTTGGGACC  TGCAGAAATCTTTTTTTAACTTTCGTATTCTGCTGTAGCTGA  >H_1.0.0_23593 Highly similar to NEP_HUMAN Neprilysin (Neutral endopeptidase (Common acute lymphocytic leukemia antigen) (CALLA) (Neutral endopeptidase 2 gi-8169687/// EST390530 Homo sapiens cDNA /gb=AW978421 /gi=8169687 /ug=Hs.30 [Human_jongleur_201102.11097.C4] [SEQ ID NO: 44]  CCCTTTCTAGGACAACCTAATGTTATCTGTATTGTGATGGCCCTCTCTGTTAATCACC  CTCAAGTCAGTACAGTGACCCC1AGGGCCCATTTTCTTTTC	) (NEP) 4-11) ((	(Enkephal CD10) [H.s:	inase) ap cr:

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AGTATTCATCTTCTTGTAGTTCAACTCGAGGTACTCATTATTCAGTTTGTTATCATTTG
      {\tt AAACAATGTCATCAGGATAGCCGATCCTTTCTTTAATTGCTAAGGCCTTTTCTTCAGGTC}
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      {\tt GGATCTGTGCAATCAAATCCTCGACCACATGTTTACTCTCTCCAGCAAATGCTGCTTCCA}
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      CATAAAGCCTCCCCACAGCATTTTCCATATTCCCATTGACATAGTTTGCACAACGTCTCC
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      \tt GCCACCCATATATGTCTGGTAACAGTTTGAGTAGAGGTTCTCCACCTCTGCTATCAATAG
      CAGATTCATTTATACAAGACCTGTACAATGCTTTTGCTTTCTGCACTGCTACTATATCTT
20
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25
      {\tt CCAGTGGAGTCCATCGCTGTTTCTTTTTTGGCTTTGGAGTGTTGATATCAGTTATATCCATCTGACTTCTGACTTCTGACTTGCCCATCACCTAAAATTCTTCAGGTCCCAGTAGCGGCTCCTTCC}
      {\tt CAGGGCACGCCTCCTCCACGGCCGCAGGGTCCTGGGCGCTCGGATCGCGCTGGACCTTAG}
      CTGCGGACCCTGCTCAGCGCACCTCCCGGCAGCCGCC
      >H_1.0.0_2865 Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class)
30
      (GNA11), mRNA cr: gi-4504036/// [Human jongleur 201102.505.C2] [SEQ ID NO: 45]
      TTCGGCCGGGGCCGGGACGATGACTCTGGAGTCCATGATGGCGTGTTGCCTGAGCGATGA
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      CGACGCCCGGCGCGAGCTCAAGCTGCTGCTGCTCGGCACGGGCGAGAGCGGGAAGAGCAC
      35
      \tt CTTCACCAAGCTCGTCTACCAGAACATCTTCACCGCCATGCAGGCCATGATCCGGGCCAT
      GGAGACGCTCAAGATCCTCTACAAGTACGAGCAGAACAAGGCCAATGCGCTCCTGATCCG
      GGAGGTGGACGTGGAGAAGGTGACCACCTTCGAGCATCAGTACGTCAGTGCCATCAAGAC
      {\tt CCTGTGGGAGGACCCGGGCATCCAGGAATGCTACGACCGCAGGCGCGAGTACCAGCTCTC}
      \tt CGACTCTGCCAAGTACTACCTGACCGACGTTGACCGCATCGCCACCTTGGGCTACCTGCC
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      {\tt CACCCAGCAGGACGTGCTGCGGGTCCGCGTGCCCACCACCGGCATCATCGAGTACCCTTT}
      \tt CGACCTGGAGAACATCATCTTCCGGATGGTGGATGTGGGGGGGCCAGCGGTCGGAGCGGAG
      {\tt GAAGTGGATCCACTGCTTTGAGAACGTGACATCCATCATGTTTCTCGTCGCCCTCAGCGA}
      ATACGACCAAGTCCTGGTGGAGTCGGACAACGAGAACCGGATGGAGGAGAGCAAAGCCCT
      \tt GTTCCGGACCATCATCACCTACCCTGGTTCCAGAACTCCTCCGTCATCCTCTTCCTCAA
45
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      GGACCTGAACCCCGACAGCGACAAGATCATCTACTCACACTTCACGTGTGCCACCGACAC
      {\tt GGAGAACATCCGCTTCGTGTTCGCGGCCGTGAAGGACACCATCCTGCAGCTCAACCTCAA}
      \tt GGAGTACAACCTGGTCTGAGCGCCCCAGGCCCAGGGAGACGGGGATGGAGACACGGGGCAG
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      {\tt TCAACGGCAAAGGCAGCCTTTTTCTGGCCTTGACTTATGGCTCGCTTTTTTCTAAAA}
      >H_1.0.0_25937 Homo sapiens guanylin mRNA, complete cds cr: gi-183414/// /cds=(8,355) /gb=M97496
      /gi=183414 /ug=Hs.778 /len=571 [Human_jongleur_201102.12385.C1] [SEQ ID NO: 46]
TCGCTGCCATGAATGCCTTCCTGCTCTTCGCACTGTGCCTCCTTGGGGCCTGGGCCGCCT
55
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60
      {\tt TCAAGCCTCTCTGCAAGGAGCCCAATGCCCAGGAGATACTTCAGAGGCTGGAGGAAATCG}
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      {\tt GCTTGCCCACTGCCTCCCCTCCGCAGGGGAAGCTCTTTTCTCCTGCAGAAAGGG}
      \tt CCACCCATGATACTCCACTCCCAGCAGCTCAACCTACCCTGGTCCAGTCGGGAGGAGCAG
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65
      AACCCCCAGCTAATAAACCAGATTCCAGAGT
      >H 1.0.0_15482 Homo sapiens pancreatitis-associated protein (PAP), transcript variant 2, mRNA cr:
      gi-21070994/// [Human_jongleur_201102.6563.C1] [SEQ ID NO: 48] GGGAGGGTCCCTTCCTCAGGGAGCACAGGAACTCTGAGACTCAGCAAGGGTGTCCTGGGA
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70
      GATGTGACCAAGATCACTTTAGTCCTAGGGGACTAGAGAAGGAAAATGACATGAGGCAGT
      GGGGTATCTGTGTGTTCTCCCACTGACCACGCTTTCTTTAGTGACTCCTGATTGCCTCCT
```

	CAAGTCGCAGACACTATGCTGCCTCCCATGGCCCTGCCCAGTGTATCTTGGATGCTGCTT TCCTGCCTCATGCTGCTGTCTCAGGTTCAAGGTGAAGAACCCCAGAGGGAACTGCCCTCT GCACGGATCCGCTGTCCCAAAGGCTCCAAGGCCTATGCCTCTCTTTT		
5	TTGTCACCAAAATCCTGGACAGATGCAGATCTGGCCTGCCAGAAGCGGCCCTCTGGAAAC CTGGTGTCTGTGCTCAGTGGGGCTGAGGGATCCTTCGTGTCCTCCTGGTGAAGAGCATT GGTAACAGCTACTCATACGTCTGGATTGGGCTCCATGACCCCACACAGGGCACCGAGCCC		
10	AATGGAGAAGGTTGGGAGTAGCAGTGATGTGATGAATTACTTTGCATGGGAGAGA AATCCCTCCACCATCTCAAGCCCCGGCCACTGTGCGAGCCCTGTCGAGAAGCACAGCATTT CTGAGGTGGAAAGATTATAACTGTAATGTGAGGTTACCCTATGTCTGCAAGGTTCACTGAC	•.	
10	TAGTGCAGGAGGCAAGTCAGCAGCCTGTGTTTGGTGTGCAACTCATCATGGGCATGAGAC CAGTGTGAGGACTCACCCTGGAAGAGAATATTCGCTTAATTCCCCCAACCTGACCACCTC ATTCTTACTTTCTTCTTCTTCTTCCTCCCCGCTGTCATTTCAGTCTCTTCATTTTGTCA	· ·	
15	TACGGCCTAAGGCTTTAAAGAGCAATAAAATTTTTAGTCTGCAAAAAAA >M_1.0.0_7660 Mus musculus 129 defensin-like gene 4C-4, complete cds cr: gi-531850/// [Mouse_jongleur_201102.3937.C5] [SEQ ID No: 50] TATAAATGCAGGCTGGGTCCTCACTCTCCACACATTGGACCCCTGCTCACCAATCATCCA		
	GGTGACTCGCAGCCATGAAGAAACTTGTCCTCCTCTCTGCGTTCTGCTGGCCTTCC AGGTCCAGGCTGATTCTATCCAAAACAGAGAGAGAGACTAAAACTGAGGAACAGCCAG GAGAAGAGAA	***	
20	ATGCAGGTTAGTGCTGGTACACAGTGTGAAGAAGGCTTGGTGTCTCCTGAGGGAGAGTTG GAGATGAGCCCTGGAATTCTGTAAAGGGCAGTCTGGTTCATATAGTTGTCTCTTCATCTG CTAAGATCTTACCTGTCTCACTTATAGAAGTAACAGTGAGTG		
25	TTTATCTAAAACTTTATCTGTCACAAAACTTTAAAATATAGAACATGTGGATAAGTCCTC TTATACCTGATTAATAATATTGTTAAAGAAGAAGAATCTGTTTTGCTTTTAAAAATTGAC TTAGGTTTCAAATCCCAGCATATGTATGAATGTTTTTGGGTCAGGAAAGTACAAAATGTCT GAAGAAATGTGGTGTGG		
	GTCCATGTGGCTGTCATGTCACCAGTACAACAACAACACTGTGAATTACATT GTCCATGTGGCTGTGATGTCACCAGTACAAACAACTGCTCTGTACTTTTGTACAATA CATCTTCATGAAATTGATTACTAACACACTGCTGGCCTCCCTACTTAATAACTGATGCTT TTTTGTGTCCTCAGCCATAGGAAGGGCTCGGCGGTGCCCACCATGCCCCAGTTGCCCGTC		
30	ATGTCCATGGTGCCCAAGGTGCCCGAGGTGCCAAATGCAAATCCAAAATAAAC CTGCACTTGGCACCAAAGATCCAAATAAACAGCATAAATTCTGCTGCAGCTGAGCATGGA ATCTGGGTCAAGATAATAATCATGTTCTCTGGAACCTCACTATCTGTCAAGACCCTTGTG		
35	CTTAGCCTTGATTGCTTCCTTCCTATAAA >H_1.0.0_42458 Homo sapiens cDNA FLJ33649 fis, clone BRAMY2024497 si: gi-21749233/// [Human_jcngleur_201102.cl.2005.singlet] [SEQ ID NO: 51]	•;	
	CATTGTGTTAAAACCTCACTTGCCAAATTCTGGCTTCACATTTGTATTTAGGGCTATCCT TAAAATGATGAGTCTATATTATCTAGCTTTCTATTACCCTAATATAAACTGGTATAAGAA GACTTTCCTTTTTTCTTTATGCATGGAAGCATCAATAAAATTGTTTAAAAACCATGTATAG TAAATTCAGCTTAACCCGTGATCTTCTTAAAGTTAAAGGTACTTTTTTTT		
40	TAGATAAAACTTTCTTTTCTGATCATGAATCAAGTATCTGTGGTTTCATGCCCCCTCTCTA TACCTTTCAAAGAACTCCTGAAGCAACTTAACCTATGTGTACTTCTTTATGATCCATA TTGATATTTATGACATGAACACAGAATAGTACCTTTACATTTGCTAAACAGACAG		
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	GTTTTGTTTCTATGCAAACTGGACACAAATTACAACAGTAAATTTTTTTATAAGTGCTTC TCCCTTCTCCATGATGTACTTCCGGAGATAAAGGATTCAAAAGATAAAGACAAAGTACG CTCAGAGTTGTTAACCAGAAAGTCCTGGCTGGGTTGCAGAAACACTGTTGGAAGAAAAG AGATGACTAAGTCAAGTGCTTATCAAAAGAGCAAAAATGCCTCTGGTTTTTGTGTT	·. •	
50	TGGAGAAAAATATCTTGGACGCACTGTTTTCCTTGATAAAAATGCCTCTGGTTTTTTTT	•,	
55	AGGAAAACAAAAACCTCTCCTCAGCCTTCCACCTCCAAGAGAGGAGGAAAAACAGTTG TCTGCTGTCTGTAATTCAGTTTTGCGTGTATTTTATGCTCATGCACCCAACCCATACAGAGT AAATCTTTTATCAACTATATACTGGTGTTTAATAGAGAATGATTGTCTTCCGAGTTTTTT		
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60	CTGATTTATATTTCATGATATTTCACATTTGCTCTTCACAGCATGAGCATGAAGCCCAGT GGCACCAAATGGCTGGGTACAATCAAGTGATATTTTGTAGCACCTCACTATCTGAAAGGC CATGAGTTTTCAGATGATTTCATTGAGCTTCATTGCAGCCTGAAATTTTAAAAAAGTTGT GTAATACGCCAACCAGTCAAGTTGTGTTTTGGCCAGAGATTTTAGATATGTCCAATTTCCT		
65	GGCTCATTTCATTGTGCTCTATGGGTACGTATAAAAAGCAAGAATTCTGTTTCCTAGGCA AACATTGCAACTCAGGGCTAAAGTCATCCAGTGAAACTTTTAGAGCCAGAAGTAACTTTG TCCCAGTCCTACAATGTGAAAAGAGTGAATAGTTGCCTCTTTTTTAGCCATTTTCATGGCT	•	
	GGTACATATTCGTACGCATTACTTTTCAGAATCAATACGCACTTTCAGATATTCTTATTT TTATTCTCTTAAGTCTTTATTAACTTTGGAGAGAGAAATGATGCATCTTTTTATTTTAAA TGAAGTAGATCAACATGGTGGAACAAAATGATAAAGAACAGAAAACATTTCAATATATTA		
70	CTAATAACTTTTTCCAATATAAATCCTAAAATTCCTATAACATAGTATTTTACAGTTTTTA TGAAGCTTTCTATTGTGACTTTTATGGAA'TTAAGAGATGAAGAAGATGAGATATTTTAGC ATTTATATTTTTCAAAATTATGTATACTTAAAAATAAAGTAACTTTATGCATT		

	>H_1.0.0_22580 Homo sapiens Sushi domain (SCR repeat) containi	ng (BK65A6.2), mi	RNA cr: gi-220	95356///
	[Human_jongleur_201102.10520.C1] [SEQ ID NO: 52]			
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5	ATGCCCAAGAGAGCTGCTCCATGCGCTGTGGCGCCCTGGACGGCCATGTTCCTGCCACC			
,	CGACGTGCTCTGGCATGCGCTGCTGCTTGGATTTCCGGGACTTCTGCCTGGAGATAT			•
	TGCCCTACTCAGGATCCATGATGGCGGCAAGGACTTTGTGGTGCGGCACTTCAAGATGT		•	
	CCAGCCCCACAGACGCCAGTGTGATCTGCAGGTTTAAGGACAGCATCCAGACCCTCGGCC			
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	CTGTGCACCCCAACAAGTGTCAATGATGGAGAAGAGCGAGTTGGTGAACGAGACGCGTT		•	•
	GGCAATACTACGGCACCGCCAACACCTCAGGCAACCTCAGCCTGACCTGGCATGTCAAGT			
	CGCTGCCCACGCAGACCATCACCATCGAACTGTGGGGCTACGAGGAGACAGGAATGCCCT			
	ACTCACAGGAGTGGACTGCAAAGTGGTCGTACCTGTACCCCTGGCCACACACA		•	
15	ACTCCGGCTCTTTCACTTCACCCCAAAACCTGCTCCTCCCAGCTACCAGAGATGGCGAG			
1.5	TGGGTGCACTTCGGATCATCGACAGCAAAATTACGCAGGGCAGAAGGACGTGCAGGCGC			
	TCTGGACCAACGACCACGCCCTGGCCTGGCACCTGAGCGATGACTTCCGAGAGGACCCTG			•
	TGGCCTGGGCACGAACTCAGTGCCAGGCCTGGGAGGAGCTGGAGGATCAGCTGCCCAACT	-		
	TCCTGGAGGAGCTGCCGGACTGCCCCTGCACCCTGACCCAGGCCCGGGCTGACTCCGGCC		•	
20	GCTTCTTCACGGACTACGGCTGTGACATGGAGCAGGGCAGCGTGTGCACCTACCACCCCG			
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	GCTGCTACACAGCGGACGGGACGCAGCTCCTGACAGCTGACTCCAGCGGCGGCAGCACTC			
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	TGTCCCACTGGCTCTACGATGTCCTCAGCTTCTATTACTGCTGCTCTGGGCACCCGACT			
0.5				
25	GCCCCGCTACATGCAACGGCGGCCCTCCAATGACTGCCGCAACTACCGGCCCCCAAGAC		•	
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30	GTCTGGAGGTGCTGCTGAACCAGGAGGTGCTGAGCTTCACCGAGCAGAGCTGGATGGA			
50	TGAAAGGAATGTTCCTGTCGGTGGCTGCCGGGGACAGGTCTGCATCATGCTGGCATCAG		•	
	GGGCCGGCCTGGAGGTCAGCGTGCAGGGCCCGTTCCTGAGTGTGTCCGTCC		•	
	AGAAGTTCCTCACCCACACCCACGGCCTCCTCGGGACACTCAACAACGACCCCACCGACG		*	
	ACTTCACCCTGCACAGCGGGCGCGTCCTGCCCCCAGGCACCAGTCCCCAGGAGCTGTTCC		•	
35	TGTTTGGGGCCAACTGGACCGTGCACAATGCGTCCTCCCTGCTCACCTACGATTCCTGGT			
	TCCTGGTCCACAACTTCCTGTACCAACCCAAGCACGACCCCACCTTCGAGCCCCTCTTCC			
	CCAGTGAGACCACCCTCAACCCCAGCCTGGCACAAGAGGCAGCCAAACTATGTGGGGACG			£.
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	AGGCTGACGGCACCTGGTCCTCACCCACCCCGAAGTGCCAGCCA			
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				•
	CTACTCTGTCATCTCAGACCCCAGGCAGGAGGCCCAGTGTTCCAACACCCCAAGCCCCGTG		•	
	CTAGCAGCGCTCCGTGCTCTTCCCCAAATACTCACGGCTCTAATTCCCCCAAACCTGAAAC			
	TTCATACCCTGGGATTCTAATACCTATGTCCTGAGCCCTGACACTCCCACACCTGAGCCT		,	ŕ
50	CAGATTCCAATAGCTCACTCCCTAGAGCCTGACGCCGGGGCCCCTGACCCCTGAGCCTCA			
	GATTCCAATACCTCACTCCCCAGAGCCTGATGCCGGGGCCCCTGACCCCTGATCTACGGA			
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33			;	
	TIC (NOT) TOTAL	-i 1250014///	[Human donelo	ur_201102.3017.C1
	>H_1.0.0_8885 Homo sapiens amnionless protein (AMN), mRNA cr:	g1-13569914///	[ummani_]ouding	ur_zorroz.5017.er
	[SEQ ID NO 53]		•	
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	TTCCCGGCGGACAAGATGGTGTCAGTCCTGGTGCAAGAAGGTCACGCCGTCTCAGACATG			
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5 .	GTGCTGGTGGAGAATGGGCCCGAGACAGGCGGAGCGGGCCCTGGCCCCGGGCCCTCCTG GCGGACGTCGCCGAGAACGGCGAGGCCCTCGGCGTCCTGGAGGCGACCATGCGGGAGTCG				
5	GCGCACACGTCTGGGGCAGCTCCGCGGCTGGCTGGCGGCGGCGTGGCGGCTGCCGTG				
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20	>H 1.0.0 18445 Homo sapiens solute carrier family 22 (organic a	nion	transporter	) member	8.
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25	GTCTTGCCCCAGTGCCATGACCTTCTCGGAGATCCTGGACCGTGTGGGAAGCATGGGCCA		e.		
23	TTTCCAGTICCTGCATGTAGCCATACTGGGCCTCCCGATCCTCAACATGGCCAACCACAA CCTGCTGCAGATCTTCACAGCCGCCACCACTGTCCACCACTGTCGCCCGCC			•	
	CTCCACAGGGCCTTGGGTGCTCCCCATGGCCCAAATGGCAGAGCCTGAGAGGTGCCTCCG				
	TTTTGTACATCCGCCCAATGCCAGCCTGCCCAATGACACCCAGAGGGCCATGGAGCCATG	•			
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30	GTGCAACTCCAACAAACTGAAGGAGATGGCCCAGTCTATCTTCATGGCAGGTATACTGAT				
	TGGAGGGCTCGTGCTTGGAGACCTGTCTGACAGGTTTGGCCGCAGGCCCATCCTGACCTG			•	
	CAGCTACCTGCTGCCAGCCAGCCGCTCCCGTGCAGCCTTCAGCCCCACCTTCCCCAT CTACATGGTCTTCCGCTTCCTGTGTGGCTTTGGCATCTCAGGCATTACCCTGAGCACCGT				
	CATCTTGAATGTGGAATGGGTGCCTACCCGGATGCGGGCCATCATGTCGACAGCACTCGG				
35	GTACTGCTACACCTTTGGCCAGTTCATTCTGCCCGGCCTGGCCTACGCCATCCCCCAGTG				
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	${\tt GACACCAGAGTCCATACGCTGGTTGGTCTTGTCTGGAAAGTCCTCGAAGGCCCTGAAGAT} \\ \\ \cdot \\ \\ \\ \\ \cdot \\ \\ \\ \cdot \\ \\ \cdot \\ \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot$				
	ACTCCGGCGGGTGGCTGTCTTCAATGGCAAGAAGGAAGAGGGAGAAAGGCTCAGCTTGGA				
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45	TGTGTTTTGGGAAGGGATGCCTATCCAGCTCCTTCAGCTGCCTCTTCCTCTACACAAGTGA	**	,		
	ATTATACCCCACAGTCATCAGGCAAACAGGTATGGGCGTAAGTAA				
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55	CCCTGCCATTCTTCTGTCTAGCCCTTCCCCACTGGCCACCTTCCCCCACTGTCCCGGTCC	•		•	
	TCTTCCCCTGAGGTCCCCTGATATCCCCTGGCTCAGTCCTAACAAGACTGAGTCTTAACA				
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70	TCAACAACACCTCACCCCACCACCCTGCCACCAGGGACCATCCAATACCTGACTGA				
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\tt CCGTCACCACCAGCGTGGAGCAAGACAGTGGGCTGGTGAATTACCAGATCTCTGTCAAGG
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10
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     CTGCGTCCCACCTAGAATCTGCTGGCTACTACTTGAAGATGGTGATCGCTCACACCAAAT
     \verb|CCTTGGACCCTCCCGGCCTGTGACCTTTGTGAGCAACTCTAACTATGCAGCAGACAAGG|\\
15
     \tt GGGCTCCGTATGTGGATGTGATCTGTTTGAACAGCTACTACTCTTGGTATCACGACTACG
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25
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     >H 1.0.0 14511 Homo sapiens pre-B-cell colony-enhancing factor (PBEF), mRNA cr: gi-5031976///
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35
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      \tt CTGCCCCTTGTAGAATATGTATTAATCATTCTACATTAAAGAAAATAATGGTTCTTACTG
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      >H_1.0.0_14531 Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA cr: gi-7669495///
70
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5	GACGCCGGACCACTGGTATCCATCTGACCTGCAGGCTCGTGCCCGTGTTCATGAGTACCT		
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20	>M_1.0.0_47876 Moderately similar to L1 repeat, Tf subfamily, member 18 [Mus musculus] [Mus musculus]		
20	as: gi-14793287/// 602959848F1 Mus musculus cDNA, 5' end /clone=IMAGE:5125498 /clone_end=5	•	
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25	CACTCTCTCTGAGCCAGGAGGCTCTCGGCACCTTCCCACTGTTGAATTAGTATAAAACAG	•	
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35	IMAGE:336420 5', mRNA sequence [SEQ ID NO: 59]		
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Ţ	TCAGTATCTGGCCATGTCCTGGTAACTGTGCTGGCTTCTAGGTGCCTAGGCCCTGCCCCC	•	
	TTGCCTTCCGCCATTCAGTTCCACATGGGAAGATCTTGGTTAAGTTCAGAATAAAAGGAA		
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	[Human jongleur 201102.291.Cl] [SEO ID NO: 60]		
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55		•	
55	TTGATAGCATCCGGTAAACCTGTGGCAGCAACCATCTGCATTGGCCCAGAAGGAGATTTG		
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	GGTGTGAÄCTGCCACTTTGACCCCACCATTAGTTTAAAACAGTGAAGCTCATGAAGGAG	•	
	GGCTTGGA3GCTGCCCAACTGAAAGCTCACCTGATGAGCCAGCCCTTGGCTTACCACACT		
<b>CO</b>	CCTGACTGCAACAAGCAGGGATTCATCGATCTCCCAGAATTCCCATTTGGACTGGAACCC		
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     >M_1.0.0_15194 Mus musculus ATP-binding cassette, sub-family A (ABC1), member 8b (Abca8b), mRNA cr:
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 $\operatorname{\mathsf{GGTTTTTCCAGGAGACACACTGAGCTGAGACTCACTTTTCTCTTCCTGAATTTGAACCA}$ CCGTTTCCATCGTCTCGTAGTCCGACGCCTGGGGCGATGGATCCGTTTACGGAGAAACTG  $\tt CTGGAGCGAACCCGTGCCAGGCGAGAGAATCTTCAGAGAAAAATGGCTGAGAGGCCCACA$ GCAGCTCCAAGGTCTATGACTCATGCTAAGCGAGCTAGACAGCCACTTTCAGAAGCAAGT 5 AACCAGCAGCCCTTCTCTGGTGGTGAAGAGAAATCTTGTTCAAAACCATCGCCATCAAAA AAACGCTGTTCTGACAACACTGAAGTAGAAGTTTCTAACTTGGAAAATAAACAACCAGTT GAGTCGACATCTGCAAAATCTTGTTCTCCAAGTCCTGTGTCTCCTCAGGTGCAGCCACAA GCAGCAGATACCATCAGTGATTCTGTTGCTGTCCCGGCATCACTGCTGGGCATGAGGAGA GGGCTGAACTCAAGATTGGAAGCAACTGCAGCCTCCTCAGTTAAAACACGTATGCAAAAA 10 CTTGCAGAGCAACGGCGCCGTTGGGATAATGATGATATGACAGATGACATTCCTGAAAGC  ${ t TCACTCTTCTCACCAATGCCATCAGAGGAAAAGGCTGCTTCCCCTCCCAAACCTCTGCTT$ TCAAATGCCTCGGCAACTCCAGTTGGCAGAAGGGGCCGTCTGGCCAATCTTGCCGCAACT ATTTGCTCCTGGGAAGATGATGTAAATCACTCATTTGCAAAACAAAACAGTGTACAAGAA 15 AATAGCAGCAGTGTTAAGCAGGAAGCTACATTCTGTTCCCAAAGGGATGGCGATGCCTCT  ${ t TTGAATAAAGCCCTGTCCTCAAGTGCTGATGATGCGTCTTTGGTTAATGCCTCAATTTCC}$ AGCTCTGTGAAAGCTACTTCTTCTCCAGTGAAATCTACTACATCTATCACTGATGCTAAA AGTTGTGAGGGACAAAATCCTGAGCTACTTCCAAAAACTCCTATTAGTCCTCTGAAAAACG 20 TTAAGTAGAGAAATTTGTCTGCAATCTCAATCTAAAGACAAATCTACGACACCAGGAGGA ACAGGAATTAAGCCTTTCCTGGAACGCTTTGGAGAGCGTTGTCAAGAACATAGCAAAGAA AGTCCAGCTCGTAGCACACCCCACAGAACCCCCATTATTACTCCAAATACAAAGGCCATC CAAGAAAGATTATTCAAGCAAGACACATCTTCATCTACCCCATTTAGCACAACAGCTC AAGCAGGAACGTCAAAAAGAACTAGCATGTCTTCGTGGCCGATTTGACAAGGGCAATATA 25 TGGAGTGCAGAAAAAGGCGGAAACTCAAAAAGCAAACAACTAGAAACCAAACAGGAAACT  $\tt CACTGTCAGAGCACTCCCCTCAAAAAACACCAAGGTGTTTCAAAAACTCAGTCACTTCCA$ GTAACAGAAAAGGTGACCGAAAACCAGATACCAGCCAAAAATTCCAGTACAGAACCTAAA GGTTTCACTGAATGCGAAATGACGAAATCTAGCCCTTTGAAAATAACATTGTTTTTAGAA GAGGACAAATCCTTAAAAGTAACATCAGACCCAAAGGTTGAGCAGAAAATTGAAGTGATA 30  $\tt CTCTTCAGTGATGTCCTAGAGGAAGGGGAAGACTAGATATGGAGAAGAGCCCAAGAGGAGATG$ GATCAAGCATTAGCAGAAAGCAGCGAAGAACAGGAAGATGCACTGAATATCTCCTCAATG TCTTTACTTGCACCATTGGCACAAACAGTTGGTGTGGTAAGTCCAGAGAGTTTAGTGTCC ACACCTAGACTGGAATŤĞAAAGACACCAGCAGAAGTGATGAAAGTCCAAAACCAGGAAAA 35  ${\tt TTCCAAAGAACTCGTGTCCCTCGAGCTGAATCTGGTGATAGCCTTGGTTCTGAAGATCGT}$ GATCTTCTTTACAGCATTGATGCATATAGATCTCAAAGATTCAAAGAACAGAACGTCCA TCAATAAAGCAGGTGATTGTTCGGAAGGAAGATGTTACTTCAAAACTGGATGAAAAAAAT AATGCCTTTCCTTGTCAAGTTAATATCAAACAGAAAATGCAGGAACTCAATAACGAAATA  ${\tt AATATGCAACAGACAGTGATCTATCAAGCTAGCCAGGCTCTTAACTGCTGTTGATGAAA}$ 40  ${\tt GAACATGGAAAAGGGTCCCTAGAAGAAGACTGAAGCAGAAAGACTTCTTCTAATTGCAACT}$  $\tt GGGAAGAGAACACTTTTGATTGATGAATTGAATTGAAGAACGAAGGACCTCAGAGG$  ${\tt AAGAATAAGGCTAGTCCCCAAAGTGAATTTATGCCATCCAAAGGATCAGTTACTTTGTCA}$  ${\tt GAAATCCGCTTGCCTCTAAAAGCAGATTTTGTCTGCAGTACGGTTCAGAAACCAGATGCA}$ GCAAATTACTATACTTAATTACTAAAAGCAGGAGCTGAAAATATGGTAGCCACACCA 45 TTAGCAAGTACTTCAAACTCTCTTAACGGTGATGCTCTGACATTCACTACATTTACT  $\tt CTGCAAGATGTATCCAATGACTTTGAAATAATATTGAAGTTTACAGCTTGGTGCAAAAG$ AAAGATCCCTCAGGCCTTGATAAGAAGAAAAAAACATCCAAGTCCAAGGCTATTACTCCA  ${\tt CCAGGAGGTCTTAGTGCTGTGCGAACCAGCAACTTCGCCCTTGTTGGATCTTACACATTA}$ 50  ${\tt TCATTGTCTTCAGTAGGAAATACTAAGTTTGTTCTGGACAAGGTCCCCTTTTTATCTTCT}$  $\operatorname{\mathsf{GGTTTTCTAACCATATTTGAAGATGTTAGTGGTTTTGGTGCCTGGCATCGAAGATGGTGT}$ GTTCTTTCTGGAAACTGTATATCTTATTGGACTTATCCAGATGATGAGAAACGCAAGAAT  ${\tt CCCATAGGAAGGATAAATCTGGCTAATTGTACCAGTCGTCAGATAGAACCAGCCAACAGA}$ 55 GAATTTTGTGCAAGACGCAACACTTTTGAATTAATTACTGTCCGACCACAAAGAGAAGAT GACCGAGAGACTCTTGTCAGCCAATGCAGGGACACACTCTGTGTTACCAAGAACTGGCTG  ${\tt GATATTCGCCTCTGGCAACCTGATGCTTGCTACAAACCTATTGGAAAGCCTTAAACTGGG}$  ${\tt AAATTTCCATGCTATCTAGAGGTTTTTGATGTCATCTTAAGAACACACTTAAGAGCATC}$ 60  ${\tt AGATTTACTGATTGCATTTATGCTTTAAGTACGAAAGGGTTTGTGCCAATATTCACTAC}$ AATGAGTAGAAGTAAATACATTATAGTTGATTTTGCTAAATCTTAATTTAAAAGCCTCAT 'ITTCCTAGAAATCI AATTATTCAGTTATTCATGACAATATTTTTTTAAAAGTAAGAAATT  $\tt CTGAGTTGTCTTGGAGCTGTAGGTCTTGAAGCAGCAACGTCTTTCAGGGGTTGGAGA$ 65 CAGAAACCCATTCTCCAATCTCAGTAGTTTTTTCGAAAGGCTGTGATCATTTATTGATCG  ${\tt TGATATGACTTGTTACTAGGGTACTGAAAAAATGTCTAAGGCCTTTACAGAAACATTTT}$ TAGTAATGAGGATGAGAACTTTTTCAAATA >H_1.0.0_124998 zm73a01.sl Homo sapiens cDNA 3' end as: gi-1578801/// /clone=IMAGE:531240 /clone_end=3' /gb=AA071438 /gi=1578801 /ug=Hs.394289 /len=521.Weakly similar to preprokallikrein (AA -24 to 238) [Homo sapiens] [H.sapiens] [gnl|UG|Hs#S481014] [SEQ ID NO: 96,111] TPCATTTGCTGCATGGTGGGCTTTATTGAGAACATGGGACAATGTGATACTCAGTCATTT 70

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CTTCCTGATGAATTCTCCCCTTGTTCCCCCCTTGGCTCTGCCATTATTTCGTTTTCAGTGTA  ${\tt ATTTGCCAAGCCGCAGTTTTCTGTGCTGGCTGTGCCTCTAGTCGCAGCTCTGTGACTGAT}$ TCCCTCCCGGGTGCTGAGTCCCCTCCCCGGCCACCATCCTGCGTGAATATCCTGAAATTC GGAAGGTGAGCCTTTTCCTGGCCAAGGGCAGCTGCCTTAACCTCTGAGAGTCTGCGCTTG GCCTTAGTCCTGGAGACCCAGCCTCCAGGGACTGAACCGTGCTGCTGTTGGGAGCCAAGA CCGGCCCTTTGGAGCCGGCAGCCCAGGGGTCCCTGCTGGATCAGAGAAATAGAAGCACCC GAAGACGGTTAGTGGCAATTCCTTGACCCGGTTTGCTTCCAAATGAAGGCCATTTGTCCA  $\tt CCAGGCATTGAAAAGACATGACTTACCCAGTCCGGCATCGGACTTGAAAAATCGAAATTG$ 10 ACATCACTCAGCTGTTACATTTCACATCCGATTCAGCCCCCTTTTATTTCCATGTGCTTT TCGCAGCCTTCCTGTGTTGGATGAAAGAGAATAAGAATTCAGCTGACAGGAGGCCTCTAT CCTACTAGGACCTGAGGCAGCTCCTTAGCAGAGACCCCTGGGGTTTAGCTGACTCTGGGG 15 TAAGTGGCATTGGCAATTGGCGTGTAATGATGGCAGTAGAATCTGAATCTCGGATCCCAG GCAGGGTTCACATTTCCAAACCTTTTTGATTTCCCCTGACCTCTAATGGCTGGATCCTAT ATTTTTTTTTCTCACTTGTAAGTCACCGCCAGTACCTAAGTTAGGCTAACGGAGACTTT 20 TCTTTGACCATGACCATGTGATGTTCCGTTTACAGTGACTTGCTTTGGGGGAGGGGAGGC TCTCTTAACCGATTCCCATGTTGTACAGTAGATGGTTAGACCTTTTGTATATTAGTGTGT TAACTTTGTTTTTACATGGGTTTGTTTTCAATAAAGTCTGACACTGGTGTCCAAAAGTCA  ${\tt ACAATAAAATGAATCCCATTGTGTTCTTTTGAAGATGCCTATGTAACTTTTAAGCTTTTT}$  $\hbox{\tt AAATTATTTCAGAAAAAAAAAAAAGAAAAGCCCTTATCAGTTTTCCATCAGCCCATTGCC}$ TTTTTATTTTTTTTTAATCCTTGTGAATAAATGTTCTTTAGTGTTTTAGGAGGAAAAA GCAAACCTAGATTTTGATAACCCAGAAGACTTCAGATTAATAAAGAAGCTTTGAAAGAAG ACCATTTTCAAAATTTTAGTGAAGTGTGAATATTTTTTTGTCAATGGCTTTCTCAAAGAG AATGAAACTTTTGCACCATTTTCAGAGTTTTTATAGAGATGCCAAATTGATATTTTACA 30 TGTAATGGAAACATGAAAAAGTTTTATTAAACAATTGTTCATAGCTGTGTAGACATTTTA  ${\tt ATTCAGTTTCCAAAGCTCTCAAAAAATCGTATTTTTGAAGTACGGAGTGATGCGGTTTTGG}$  ${\tt CAGGTTCGTGTTAAACGCTGTATGTTAACTATGACTGGAATTCTGTGATATTTTGGTAAT}$ AAATGAAGTGGGGTCCŤŤTCGGN 35 >H_1.0.0_27933 Homo sapiens, clone MGC:33211 IMAGE:4829800, mRNA, complete cds cr: gi-23271237/// cds=(319,1599) /gb=BC034999 /gi=23271237 /ug=Hs.88276 /len=1901 [Human jongleur 201102.14048.C1]/ (SEO ID NO: 109) AGCGGAGTAACTGACTACTTTTCTCCCTTCTCTAGGGTCCTAGCACAGTGTCTGATGGAG  $\tt CTTTCCTACCAGACCCTGAAATTCACGCATCAGGCGGGGAAGCGGTATATCGATACAGC$ AAATGCTTTGGAGCAAGAACTAAACTGGGGTTTACGACGTTTGAAGTTTGTGACAACAT  $\tt TGATCTTGAAACTATTTTGATGGAATATGAGAGTTATTATTTTGTAAAATTTCAGAAATA$  $\tt CCCCAAAATTGTCAAAAAGTCATCAGACACAGCAGAAAATAATTTACCGCAAAGAAGTAG$ GAGGCCCCGGTCCAAAACCACAGCGGGGAAGACAGGGGGACACCAAATCGCTCAATAAGGA 45 GCATCCTAATCAGGAGGTAGTTGATAACACTCGCCTGGAAAATGCCAACTTCGGCCTACA  ${\tt CATTGACTTCCAAGGGCTGCTCACAGATGCCATCAAGGGAGCAACCAGTGAACTTGCCTT}$ GAACACCTTCGACCATAATCCAGACCCCTCAGAACGACTGCTGAAACCTCTGAGTGCATT  ${\tt TATTGGCATGAACAGTGAGATGCGAGAATTGGCAGCCGTGGTGAGCCGGGACATTTATCT}$ 50  $\tt CCATAATCCAAACATAAAGTGGAATGACATTATTGGACTTGATGCAGCCAAGCAGTTAGT$  $\tt CTGGAAAGGACTACTGCTGTACGGCCCTCCAGGTACAGGAAAGACTTTACTGGCCAAAGC$  ${\tt TGTGGCCACTGAATGTAAAACAACCTTCTTTAACATTTCTGCATCCACCATTGTCAGCAA}$  ${\tt ATGGAGAGGGGATTCAGAAAAACTCGTTCGGGTGTTATTTGAGCTTGCCCGCTACCACGC}$ 55  ${\tt CCCATCCACGATCTTCCTGGACGAGCTGGAGTCGGTGATGAGTCAGAGAGGCACAGCTTC}$  ${\tt GCTGGCACGCTCAGAAGATCTCGTATTTGTCTTAGCAGCTTCTAACCTGCCGTGGGAGCT}$  ${\tt GGACTGTGCCATGTTACGCCGCCTGGAGAAGAGGATTCTGGTCGATCTCCCCAGCCGGGA}$ GGCCAGGCAGGCCATGATCTACCACTGGCTGCCTCCTGTGAGCAAGAGCAGGGCCTTGGA 60 GCTGCACACAGAGCTGGAGTACAGTGTGCTGAGCCAGGAGACTGAGGGCTACTCAGGCTC  ${\tt AGATATTAAGCTCGTCTGCAGGGAAGCAGCCATGCGGCCCGTGAGGAAGATCTTTGATGC}$  ${\tt ACTTGAAAATCACCAGTCAGAAAGCAGCGACTTACCCAGGATCCAGTTGGATATAGTAAC}$  ${\tt CACTGCCGACTTTCTGGATGTGCTAACTCACACCAAGCCCTCCGCAAAGAATCTGGCTCA}$  ${\tt GAGATACTCAGACTGGCAAAGAGAGTTCGAGTCTGTCTGAAACCACATTTACCCTGACCT}$ 65  $\tt GGCCACAAAGGCAACCACAAAGACCTCCTAGTTTATTAATGTCCGTGGGAGAACAAAATG$  $\verb|ATTGGAATGGAAAAGAGAAAATTATTTTTGAAGACTGGATTAACTTGAGCCACTGTATTG|$ TTTTGGATAGCTGAGATATATTTATTAACTTACCATTATCGATGTCAGCAAAATATTGAG AGTTTCAGTTACATACATATATGTGCTATTGGGTCATACAATGGAGATTTTTCTGACAAT TAGACTCCATAAAATTTTAATGAAC 70 >H_1.0.0_19700 Homo sapiens neurofilament, light polypeptide 68kDa (NEFL), mRNA cr: gi-5453761/// [Human_jongleur_201102.8785.C3] [SEQ ID NO: 110]

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     \tt GTCTCCCACCTCCCGGGCCTCTCTGGGGCCCCTTTCCACCGCTCACTGCTTAGAAAGGCC
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35
     TATTCTCCTGGGTTCCTTCCGGGGTTTATTGCTGAGGCCCAGCTGTGCAGAATTGTTTGC
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     GATCTCAGTCTCAGTGCTTGGCAGAGGGGTGAGGCCCTGGGGAGGCAGGGGTTGGTGC
     CCTGACTCCTGTGAGGGGAATCTCAGTAGCTGGGAAATTATGGAAAAACTCTTCCTGTTTC
     {\tt TGTCCATCTTGTTCCTGTGGCTTAGCACATACAGACCTCAGATCTTACTTGGTAGTGAGT}
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     AGGGGATGACATCCCAAACAGCCCGGAGTATTTGCAGAAGGCTCAGGCAACGAGTGGGCC
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     ATTTATTTATTTATTCATCTATTTATTTAC'LTATTTATTTATTTATTTATAAATATTGCT
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     \tt GTCTCTTGCTTCCTCCTGCTTACGCCTTTCCTTTTTTTTGCTCCTTCTTCAACTCCTG
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     GTGTGTGTGAGCATGCCCTTTGCTTGCCACACCATATCCTTTCCCCAGATCCACCTGTCC
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     TCCTCAACTCCCTCCACCCCTAGACAATCCTACCTGGTCCCATCTGCCTCTTTTCTCTCC
     CCAGCCTGCCCTGTGACCCTTGCCTCTTCCTGATACTCCCAAGAGCAGGCCCCAGGGGTC
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     AAATAAAAGTGACCTCGTTCTAGCACCAGG
     >H_1.0.0_23668 Homo sapiens BCL2/adenovirus E1B 19kDa interacting protein 1 (BNIP1), transcript
     variant BNIP1, mRNA cr: gi-4502440/// [Human jongleur 201102.11130.C4] [SEQ ID NO: 114] GGGGGCTGCCCGTAGCCGCGTCCCCAACATGGCGGCTCCCCAACATGGCGGCTCCCCAAGACGTCCGGA
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     ATCAGGCCTCATGGAGGAAAGCTAATCTCACCTGCAAAATTGCAATCGACAATCTAGAGA
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70
     TGGCCCAGACATCCAGTACCATCACTGAGAGCCTCATGGGGATCAGCAGGATGATGGCCC
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TGGATGCAAATGAAGAATTTAAGTCCATGTCGGGCACCATCCAGCTGGGCCGGAAGCTTA  ${\tt TCACAAAATACAATCGCCGGGAGCTGACGGACAAGCTTCTCATCTTCCTTGCGCTACCCCC}$  ${\tt TGTTTCTTGCTACGGTCCTCTATATTGTGAAAAAGCGGCTCTTTCCATTTTTGTGAGATC}$  $\verb|CCAAAGGTGCCAGTTCTGGCCCTTTCAGCTCCTGTTTCAGGATCTGTCCTGGTTCCTGAG|\\$  $\tt CTCTAGGCTGCTAAGCTGAGCCACACCCCTCCGTTTTGCACCAGTTGCCTGCAGGTTG$ GATGGAACACAGTGCCCCACTTTTCTGCAAGTAGCTGGCTTGTAAAGGGTGAACAGAGCC ATGGGAGGAAGGTCTGGCATTGGGATGCCGCCCTGGGGACATACGAACCGCCTCCTTCCA  $\tt CCATTGTGCACTATGGGAGGCCGCTGCTGCGTGGAGCACTTAAAGTCCAGCCTCCAGGAC$  $\tt CGGATGCCCCTCCTGTCTCCCGCTCCCATCGTGCCCTTAAATGCCAGATCTGGTGGAGGG$ 10 AAGAGAGAGGGTAGGAAGAAGGTGATGAAAACTCCTGGTCATTCCTTGAATAAACTTGATTTTATTTAATAGAATAAAATGTATTTGATTTTGC >H_1.0.0_12581 Homo sapiens nucleophosmin (nucleolar phosphoprotein B23, numatrin) (NPM1), mRNA cr: gi-20070168/// [Human_jongleur_201102.4957.CB3] [SEQ ID NO: 115] CTTTCCCTGGTGTGTATTCCTCGGGGGGTTGTTCTCTGGAGCAGCGTTCTTTATCTC  $\tt CGTCCGCCTTCTCCTACCTAAGTGCGTGCCGCCACCCGATGGAAGATTCGATGGACAT$ 15  ${\tt GGACATGAGCCCCTGAGGCCCCAGAACTATCTTTTCGGTTGTGAACTAAAGGCCGACAA}$  $A {\tt GATTATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTATCTTTAAGAACGGT}$  ${\tt CAGTTTAGGGGCTGGTGCAAAGGATGAGTTGCACATTGTTGAAGCAGAGGCAATGAATTA}$  $\tt CGAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGT$ 20  ${\tt TTCCCTTGGGGGCTTTGAAATAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGG}$ GCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGA TGAAGAGGAGGATGTGAAACTCTTAAGTATATCTGGAAAGCGGTCTGCCCCTGGAGG  $\tt TGGTAGCAAGGTTCCACAGAAAAAGTAAAACTTGCTGCTGATGAAGATGATGACGATGA$ 25 AGAAAAAGCGCCAGTGAAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTC AAATCAGAATGGAAAAGACTCAAAACCATCATCAACACCAAGATCAAAAGGACAAGAATC CTTCAAGAAACAGGAAAAACTCCTAAAACACCAAAAGGACCTAGTTCTGTAGAAGACAT TAAAGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTCCCAAAGTGGAAGCCAA 30  $\tt CTGGCAGTGGAGGAAGTCTCTTTAAGAAAAATTTTAAAAAATTTTCC$ GTCTTATTTCATTTCTGTAACAGTTGATATCTGGCTGTCCTTTTTATAATGCAGAGTGAG  ${\tt AACTTTCCCTACCGTGTTTGATAAATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTC}$  ${\tt CAAAATGCCTGTTTAGTTTTAAAGATGGAACTCCACCCTTTGCTTGGTTTTAAGTATGT}$ ATGGAATGTTATGATAGGACATAGTAGTAGCGGTGGTCAGACATGGAAATGGTGGGGAGA CAAAAATATACATGTGAAATAAAACTCAGTATTTTAATAAAGTAAAAAAAGTTAATTCAC CATGATCAAGTAGGCTTTATTCCTTAGATGCAAATTTGGTTCAACATATGTGAATCAATA  ${\tt AATGTGATTCACTACATAAATAATTAAAGACAAAAACCATATATTATCTCAGTAGACACA}$ GAAAAATCTTTCATAAATCCACATGCACTTCATGATAAAACCCCCAGAGACTGGCATCAA 40 TCTAAACAAGAGAAAAAGCGTAATAGAGGGGAGAACACATAATGCCCACTAAGGGTAG  ${\tt TGCATTAAGGAAAAACAGTCTTGGCAGGTATATAGGAATAGTGGTTTCCAGACTGGTTGA}$ TGACCGTAATCACCAAGAACAGTGGTTCTCAGTCTTGGCTGCACATTGCAGTGATCTGGA 45  ${\tt ACTTAAATACTAATTCTAAAAGGGTGCAGTGGCTCATACCTGTAATCCCAGCACTTTGCA}$  ${\tt AGTCCGACATGGGAGAATCACTTGAGCCCAGGAGTTTGAGACCAGCCTGGGCAATGTAGG}$  ${\tt GAGACCCTGTCCCTACAAAAAATACAAAAATTAGCCAAGTGTGGTAGCTTGCACCTCTGG}$  ${\tt TCTCAGCTACTTGGGATGCTAAGGCAGGAGGATTACTTGAGCCCCAGAGGTTGAGGTTGC}$ AGTGAACCATGATCACACCACTGCATTCTAGCCTGGGTGACAGAGTGAGACCCTCTCCCT  $\tt CCTAAAAAAATCCTTAAGAAATATATTGATGCTTGGTTCCTTTGGTCAGAATTTTGATTT$ AAGGTGTTGGGAGTGTAGCACAGATGTTGGAATAAACCTCTCAAACTGATTTTAATATAC  ${\tt AAACAAGGTCGAGAACCACCAAGGAAGAGTTTTTTATGCATAAAGATTCCTGTACTCTAC}$  $\tt CCTAGAACTAATACATCTGAATCTCTGGGAATGGAGTATAACAATCAGATTTGAAAAGGT$ 55 TTCTTTAGTAATTTTAAGGACTGACCAGTTTAGACACTGCTTTGTTAGAGTAAAATGATT  ${\tt AGGTACCTAGTATCAACCTAGCCATCCAACCTTATATTAATAACTAGGAAAATAAAGGGT}$ TGGAGCCTCTGTGTTCTTTGTTGAAAAATCTGCTACTATTATTAGATCTGTGAAAACAA TTGAAAATTCGGTTATTATCACCTTAAAAGTACAAAACCTATAGATTTTGAAAATGTAAT TATTTTTCTGTAGGCATAGTTAAAAAGATTTTGTAAATGTTATAAATCAGTTTCTTTATA  ${\tt AGCGGTTTATTTAGATAAATTTTGTTATACTGACATGATTCACTAATTTTCTAAATATAA}$ 60  ${\tt A'TGGTTCAGCTCTTAGTTATTTTTAAACTAATGACCTGTGTTATACTTCCTATTTTTAAT}$  ${\tt GGGCTTTTATGATGTTTTAGGTTTTTTTGAATCCCGTGTCCTTCAAGTGCTTTCTAACTT}$ TGAGAGGAAGAAATTGACCACCTGGACTATGGAACTGAATATAAATAGTTTCTGGAAAGG ACACTGACAACTTCAAAGCAAAATGAAGTTCTTTCTGTTGCTTTTCACCATTGGGTTCTG  $\verb|CTGGGCTCAGTATTCCCCAAATACACAACAAGGACGGACATCTATTGTTCATCTGTTTGA|\\$ 65  ${\tt ATGGCGATGGGTTGATATTGCTCTTGAATGTGAGCGATATTTAGCTCCCAAGGGATTTGG}$ AGGGGTTCAGGTCTC1'CCACCAAATGAAAATGTTGCAATTCACAACCCTTTCAGACCTTG GTGGGAAAGATACCAACCAGTTAGCTATAAATTATGCACAAGATCTGGAAATGAAGATGA  ${\tt ATTTAGAAACATGGTGACTAGATGTAACAATGTTGGGGTTCGTATTTATGTGGATGCTGT}$ 70  $\verb|AATTAATCATATGTCTGGTAATGCTGTGAGTGCAGGAACAAGCAGTACCTGTGGAAGTTA|$  $\tt CTTCAACCCTGGAAGTAGGGACTTTCCAGCAGTCCCATATTCTGGATGGGATTTTAATGA$ 

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TGGTAAATGTAAAACTGGAAGTGGAGATATCGAGAACTACAATGATGCTACTCAGGTCAG
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      \tt CTTTTGGGAGAGGAAACAGAGGATTCATTGTTTTCAACAATGATGACTGGACATTTTCTT
      TAACTTTGCAAACTGGTCTTCCTGCTGGCACATACTGTGATGTCATTTCTGGAGATAAAA
15
      {\tt TTAATGGCAATTGCACAGGCATTAAAATCTACGTTTCTGACGATGGCAAAGCTCATTTTT}
      \tt CTATTAGTAACTCTGCTGAGGATCCATTTATTGCAATTCATGCTGAATCTAAATTATAAA
      ATTTAAAATTAAATGCATATCCTCAAAAC
      >H_1.0.0_71201 Moderately similar to TRY1_HUMAN Trypsin I precursor (Cationic trypsinogen)
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20
      /gb=AA635173 /gi=2558387 /ug=Hs.136626 /len=370. [gnl|UG|Hs#S881001] [SEQ ID NO: 117]
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25
      {\tt GAGTTGTCCATTGCAGACTACGGGGCCACCAGAGTCACCCTGGCAGGAGTCCTTTCCGCC}
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      AGAACTGTCA
      >H_1.0.0_14537 Homo sapiens pancreatic lipase-related protein 1 (PNLIPRP1), mRNA cr: gi-5453919///
     [Human_jongleur_201102.6035.C1] [SEQ ID NO: 118]
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      GAGCCCTGGGGCGGGACAGCAATCAGGCCCCTGAAAATTCTCCCCTGGAGCCCTGAGAAG
      {\tt ATCGGCACCCGCTTCCTGCTGTACACCAATGAAAACCCAAACAACTTTCAAATTCTCCTC}
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      \tt GGGTTGGATCCTGTAGAAGCAAGTTTCGAGAGTACTCCTGAAGAGGTGCGACTTGATCCC
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45
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     {\tt GACAAGTGCTTCCCGTGTCCAGATCAAGGATGCCCACAGATGGGTCACTATGCTGATAAA}
      {\tt TTTGCTGGCAGGACAAGTGAAGAGCAGCAGAAATTCTTCTTGAACACAGGAGGGCTAGC}
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55
     >gi|182057|gb|M16652.1|HUMELAP2A Human pancreatic elastase IIA mRNA, complete cds [SEQ ID NO: 119]
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     \tt C'TGGAGCCC'TCAGTTGTGGGGACCCCACTTACCCACCTTATGTGACTAGGGTTGGCG
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     GCAAGTGGTACCACACCTGCGGAGGGTCCCTGATAGCCAACAGCTGGGTCCTGACGGCTG
60
     \tt CCCACTGCATCAGCTCCTCCAGGACCTACCGCGTGGGGCTGGGCCGGCACAACCTCTACG
     \tt TTGCGGAGTCCGGCTGGCAGTCAGTGTCTCTAAGATTGTGGTGCACAAGGACTGGA
     \verb|ACTCCAACCAAATCTCCAAAGGGAACGACATTGCCCTGCTCAAACTGGCTAACCCCGTCT|\\
     \tt CCCTCACCGACAAGATCCAGCTGGCCTGCCTCCTGCCGGCACCATTCTACCCAACA
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65
     {\tt TCCTGCAGCAGGGCCGGTTGCTGGTTGTGGACTATGCCACCTGCTCCAGCTCTGCCTGGT}
     GGGGCAGCAGCGTGAAAACCAGTATGATCTGTGCTGGGGGTGATGGCGTGATCTCCAGCT
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     ACGCCATCGTCAGCTTCGGGTCTCGCCTCGGCTGCAACTACTACCACAAGCCCTCCGTCT
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     {\tt AGGACTTGAGCAGGCAGGGGGTCACCGCCGGGCAGCGTGGAGGAGCCATCTCCTGGAG}
     GTTCTTCTGCGGGAAGAGAGTGCGCGCGGAGATAGCAGTGTGGAAACACGCGAGGAGT
     \tt CGGAGGGCACGGGCCAGCGCTCAGCCTGCGCCATGGGTGGTCCCGGGACCAAGAGCG
10
     GGGAGCCTTTGTGTCCTCCGTTACTGTGTAATCAGGACAAAGAAACCTTGACTCTGCTCA
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     TGGCAAAATCTCCAGAGAGCCATGGACATTGGAGAGAGTGGTATTATGGTGTAAACAACG
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     AAAGTGCTACTTGTTCAAATGAGGAAAAAGATAACTTAAACGAGTCAGTAATAACTGAAG
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     TGAAGGATGGTTTGGAAGATGAGGACCCGGCTGAGAAAACTCTTCTGTGCCCCAGTGAAC
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15	TGTTGACGTCATGGATCTCATCGCTATTTGCTGTCCAAAGTACAAAGATCGACCACAAAT TGCAAGAGTAGTGCAGAAAACCAGCAGTGGCTTCAGTGTTCAGTGGATGGCAGGCTCCTA CAGTGGCTCCTGGACTGAGGCTAAGCGCCGTGATGGCCGCAAACTGGTGCCTTGGGTAGA CACTATTAAAGAGTCAGACATTATTTACAAAAAAAATTGCTCTAACGAGTGCTAATAAGCT				
20	GACTAATAAAGTTGTTCAGACTTTACGATCCCTGTATGCCGCCAAGGATGGGACTTCCAG CTAATGAATTTGTACATGCAGCCAAATTTACAGGAATTTTTTTT			· .'	
25	AATTGTTTATATCTTGGAAAAAAACTTTCTGTTTAAAAAAAA			•	
30	AACAATACAAGAAAAGGGATCCCCAGGTAATCTGGTGGAGCGAATACTGCAATAAATTTT TTTACTTCTTTTGTTACTTGTCTGTTTCCATTTGAATTTCTTATTGTAAAAATCTGTTT AAATCCATTTATATTATTTTACAGTCTTTTATGTAAAATTTATTATATCACTGGTTTTCA AAGCAAAACATAAAATATTGTTTATACAGTTTGTATATGGCTGACTTCTGAATAATTGGTA		,		
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40	GCTGGGATTTGAACTCAGGACCTTCGGAAGAGCAGTCGGGTGCTCCTAACCACTGAGCCA TCTCACCAGCCCGAGAGTTCTGCATCTTGATCTGAAGACAGAC			•	٠
45	CCACTTTCCCATGGGGCCAAGCATATTCCAANACAACCACCATCTCTTCCATGGTGGG TTCTCACTTTCATGCTTTCCTGGCTCCATCCAT >H_1.0.0_3990 Homo sapiens U4/U6-associated RNA splicing factor [Human jongleur 201102.961.C1] [SEQ ID NO: 146]	(HPRP3P), mR	NA cr: gi-47	58555///	
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13	AAAA
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	AGCTGGATGTGAATGCATCCCGGCAGGGTATTGAAGATGCTGAAGAAACAGCAAATCAAA			
10	CTTGTGGTGGGACAGATTCCACGGAAGGATTGTTTAATATGNNNNNNNNNN			*
	NUMMININININININININININININININININININ			
	NUNNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUN			
	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN			
	NANAMANANANANANANANANANANANANANANANANAN			
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13	CAAGTAATCCTGCCATCATCAGGCAGGCTGCTGGAAATTATATTGGAAGCTTTTTGGCAA			
	GAGCTAAATTTATTTCTCTTATTACTGTAAAACCATGCCTAGATCTTTTTGGTTAACTGGC	•		
	TGCACATATACCTTAATAACCAGGATTCGGGAACAAAGGCATTCTGCGATGTTGCTCTCC	•		•
	ATGGACCATTTTACTCAGCCTGCCAAGCTGTTCTTACACCTTTGTTTTTAGACACAAGC			
20	AGCTTTTGAGCGGAAACCTGAAAGAAGGTTTGCAGTATCCTCAGAGTCTGAATTTTGAGC		•	•
20	GGATAGTGATGAGCCAGCTAAATCCCCTGAAGATTTGCCTGCC			
	TTGCTGCAATCACAAAGTAAGT	01017		GING BINGED
	>H_1.0.0_27490 Homo sapiens cDNA FLJ90378 fis, clone NT2RP20			
25	PROTEIN 135 cr: gi-22760577/// /cds=(5,976) /gb=AK074859 /gi	=22/605	5// /ug=HS.53996 /	Ten=190/
25	[Human_jongleur_201102.13667.C1] [SEQ ID NO: 154]			
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	CGAGTGACCTCATCGAGATCCAGGTGGTGAAGGTGACGGACACCACGCTGGTCCCTGAGC			•
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	CCACCATAGTCTTCTGCTCTGGTCCTCCACGGGTGGACCAGGATGGTGTCTCTTGCCTAC	,		
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55	AGCCCAGGGTCCCCCACAAGCCTCAAGGTAGCCTCAGGTTTCTCTAATTTCCTCCACTCC			
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	GAAGGGCN	•		
60	>M 1.0.0 56987 BB667377 Mus musculus cDNA, 3' end as: gi-163	398826/	// /clone=C730006	I15 /clone end=3!
00	/gb=BB667377 /gi=16398826 /ug=Mm.105955 /len=706 [gnl   UG   Mm#	10020//	POI [CEO TE NO. 10	eri
	AGACAAGGTCTCACTACATAGTCCAGGCTGCATCTCCCTCAGCCTTCCAAAAGCTGCAAA		JUJ [SEQ ID NO: 15	221
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      CGAGAGAACTATCCCCTTCCCTGGGAGAAGGACACAGAGAAACTGGTAGCTTTCTTGTTT
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      {\tt TTCCTTAGGACCATGGGAGCTATTGATTTCACGGCTCCTATTCAGAGGCTCATTCGGCT}
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     {\tt CTTGGCTGGGCAATGACCTCAGCTGACCTCAGCAGGATGGGCACGGTGACCTCGTGGTG}
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25
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     \tt CTTGAAGGCTTCCAGCCCTCAGGTCGGTTTGGCTCGGCCTTTGGCTGTTTGAAC
     \tt GTGGACGGCGTGCCTGGCCGTGGGAGCTCCCTCGGTGGGCTCCGAGCAGCTCACC
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     {\tt AACATCACCATTTCTTGCCAGGACATCTACTGTAACTTGGGCTGGACTCTCTTGGCTGCA}
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     \tt GGGAAGCAGAAGGGAATTGTGGCTGCGTTTTATTCTGGCCCCAGCCTGAGCGACAAAGAA
     {\tt AAACTGAACGTGGAGGCAGCCAACTGGACGGTGAGAGGCGAGGAAGACTTCTCCTGGTTT}
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     {\tt GACAAGGCAATGGGGAAACTGGGTACTTCCCTTTCCAGTGGCCACGTACTGATGAATGGG}
     {\tt TTCCTGACCGTGACCCTACACCAAGGCGGAGCCACTCGCATGTACGCACTCATATCTGAC}
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     {\tt TA'IAATGGCAAAGAGACCACCCTTGGTGACATGACTGGCAAATGCAAATCATGGATAACT}
     {\tt CCATGTCCAGAAGAAAGGCCCAATATGTATTGATTTCTCCTGAAGCCAGCTCAAGGTTT}
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     {\tt ATGGGGCTCCTGGGAGTAGAGAGACACTAACAGCCACACCCTCTGGAAATCTGATACA}
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60
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     >M_1.0.0_19077 vv70h06.x1 Mus musculus cDNA, 31 end cr: gi-4613514/// /clone=IMAGE:1227803
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     TGGCAGTGTTGAGTGAACAAGATTCTAGCTATGTTGTAATGAGCTGTGCATGGAGCTTTC
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     TGGCAGGTTTGATCTCAGAGGGCTGGCAGGGAGTCTCATCTGAGACCTCTGTCTTGACAG
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	GGGCAGACAGGTTGGCAGATGCTGGAGACACAGCATGAGGAGTCTTGGCAGCTGCTAGAG ACACATGGTGGCTCACAGGGGCCCAGAGCCATACAGGCAGATGGCTGACAAGCACTGGCC TCTGAGCAAGGTGGCTCGCAGGGACTGGTTTCACAGCCGACTGGCTGG			,	:
10	TGGGCTCACAGATCACTGGCTGGCAGCAGCAGGGTTTGCAGATCACTGGCTGG	4504763/ 55 Weekl	/// /clone	e=IMAGE:499	1396
15	of ras [Mus musculus] [M.musculus] [Human_jongleur_201102.164 GTACAGATGTGAGTCTTTGATGAAGCCCCCAGGCAGGCACCAAGGTGATGGGACTCAGGG CCTTGGCTTTTAGATACATCCCAGTCCCTGACTGACATCTGACCATGAGGGCTGGATGGG TGGGAACAAGGAGGAGTAGATGGCAAAAGTACCTGAGCCCACTTCCCAGCCACAGGGTGA	424:C1]	SEQ ID N	NO: 1.58]	supplessor
20	CCCTGGCACTGTAAAAACCCTTTGTCAGTCATGCCAGAAGGTTCTAGAACTGCCCACCTC TTCCATTTCAGTCCTGAAAACCCCTTAGTCATGTCAGACTCCTCTTGTCATTCCAGTCCTCTTGTCAATGCCTTTG AGTTCAGCTGGGCAGTGTGTGGGCTATCACCCCTTTTAGTCATTTAGACCTACTAGCTTGGCCC				:
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50	GGAATGGCAAGCCCTGGAAACCTGTGTTTATTCTGTTTGATTCGGTGTGGGGGGAGGGTG GAGACGTAAATGTGAAGCCAAGTTGGAGTTTGTGCTATGCAGCAGTGTTAGCCAGGATCT CATCAGCGTGCAAACCTAGCATCTTCTGTGGCCACAAGCCACACACTTGCTTTTTGTGAA TGTGATGTAAAATTTGTACAGGAAAGTTTTTATATTTTCTATCAACTACATTTGTCTTCC			•	•
55	AGACATGCTATTAAATTTAAAATGGTTAGTATTAACAAACA		// /«lo»»	*W3 OF . 1 2 0 2	
	/Clone_end=5'/gb=AA798385/gi=2861340/ug=Mm.25607/len=473 NNNNNNNNNNNNNNNNNTCACATATTTATTTTCATCCCAAATATTGCCCCATCTCCCATTACCC CCTCCCAGAATTCCCCACTCTGTCTTCCCTCCATTTTACCTCTGAGAGGGTGACCTCCCC AGGTATCTACCTGGTATATAGTCTCTACAGAACTGGGCACATCCTCTCCCTCTGGGGATA	[g1:1 U0	7 /CIONE: 5   Mm#S323	=1MAGE:1382 719] [SEQ I	D NO: 159]
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65	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	wt · Mus	musculus	ćDNA 3¹, m	nRNA sequence
70	CCGTGAACCAGTGGAAGACTTTATAAATGCATTATTTACAAAAAACGCACAAAGGTAAGA AACACAAAGTTCCGCCCTGTGGCCTGTACCACGCCACACTCATCCCAGCGGAAAGAAGCG TTATCAAGGCATGAAGCAACATCAAGAAGCATAGTAAACGCACTTGTTATCCTTAACAAA ACTGTGGGGCAAGTATAGTCTGAGCATGTCTTTAACCAGTGCTCTGTGAA IACTACGAAG				

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	ATATAAGCTTAGGAATTTATGGCACCAGAACTTGCTTCCTCTCACTTGGCTCGGGGGCTT			•
_	CCCTTGGGAACGGTGTCCCACCACCTTCTGAGTCTCCATTCTTGAGCTGTCATTTCACAGT		٠.	
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	TGTACTGTGCAGCCCTGGAATCCCTGATCAACGTGTCAGGCTGCCATCGAGAAGA			
	CCCAGAGGATGCTGAGCGGATTCTGCCCGCACAAGGTCTCAGCTGGGCAGTTTTCCAGCT		•	÷
	TGCATGTCCGAGACACCAAAATCGAGGTGGCCCAGTTTGTAAAGGACCTGCTCTTACATT		•	
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30	AGAAATAAAGTTGGTGACAGATA >M 1.0.0 7164 Mus musculus killer cell lectin-like receptor subfamily A, m	ombor 21	/V] ~~ 21 \	mDM7
50	cr: gi-21361215/// [Mouse jongleur 201102.3652.C9] [SEQ ID NO: 162]	ember 21	(KIIAZI),	HICINA .
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	1 : 19 1 1: 10 11 COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHOCHO COCHOCHO HO COCHOCHO HO COCHOCHO HO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHO COCHOCHOCHO COCHOCHOCHO COCHOCHOCHO COCHOCHOCHO COCHOCHOCHO COCHOCHOCHO COCHOCHOCHO COCHOCHOCHOCHO COCHOCHOCHOCHOCHOCHOCHOCHOCHOCHOCHOCHOCH		-	

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	>H_1.0.0_9637 Homo sapiens nuclear phosphoprotein similar to S. cerevisiae PWP1 (PWP1),	mRNA cr: gi-
	5902033/// [Human jongleur 201102.3438.C1] [SEQ ID NO: 164]	
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 ${\tt AGCCAACTGTGGAGGGGGACTCAGGTGTAGGCTCTGGACACAGCCAGTTTCACGTGACGG}$ 

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,		•			
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	>H_1.0.0_20308 Homo sapiens hypothetical protein FLJ10287 (FI	J10287).	mRNA cr: gi-1	1024703///	
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25					
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	$\tt TGTCCTTTAGATCCAAAACACACAGTATATGAAGATCAACTAGCAAAGCATTTGAAAAAA$	-	•		:
40	TGTCCTTTAGATCCAAAACACACAGTATATGAAGATCAACTAGCAAAGCA1TTGAAAAAA TGTAACTCAAGAGAGAAACCAAAACCTGATTTCTATATTCAAGATATTAA1GCAGGCTTA	•	•	er F	:
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40	TGTCCTTTAGATCCAAAACACACAGTATATGAAGATCAACTAGCAAAGCA1TTGAAAAAA TGTAACTCAAGAGAGAAACCAAAACCTGATTTCTATATTCAAGATATTAA1GCAGGCTTA			er er	; ·
40	TGTCCTTTAGATCCAAAACACACAGTATATGAAGATCAACTAGCAAAGCA1TTGAAAAAA TGTAACTCAAGAGAGAAACCAAAACCTGATTTCTATATTCAAGATATTAA1:GCAGGCTTA AGAGATGAAACAGAAATACCTGAACAATTAGTTCCAATTTCTTCTCTATCTGAAGAGCAG TTGGAAAAGTTAATTAAGAAATTGAGAAAAGCAAGTGAAGGCTTGAATTCTACACTTAAA			er er	
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45	TGTCCTTTAGATCCAAAACACAGTATATGAAGATCAACTAGCAAGCA				
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5	TGGTACATTTGCCAAGACAAAGGTTCAGAATTACTAATTTTAGATATTATGATATTCTGA AATAACTATTTTTATCCTGTAGTTCTATGATTATATGATTTGTAAATAAGAAGCCTAACC AATTTAAAATTCCTGACTTTAGTCTCATATATCTTGTCAGACTGTCTCGGTTCAAATTCC AAACCTACCATCTTCAGTTGTGCGACCTTGGGCATGCTAACTCTCTTTTGTGCCTCAA		
10	TTTCCTCCTTTTAAAATGGGGATGATGATGATAACAATAATACCTACC		
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15	GTGTCATAAAATTTGTTTTGCATCATTCAACAATTTATGCCCAGAAATAAACAATATTCT ACAACAGGC >H_1.0.0_27645 Homo sapiens Ku70-binding protein (KUB3) mRNA, partial cds cr: gi-4		
20	/cds=(0,868) /gb=AF078164 /gi=4878033 /ug=Hs.61188 /len=1259 [Human_jongleur_20110] ID NO: 168] CGGGGCTGCCTTCTTCCCTGCGGAGGGAGGGCCTGGCGGTCGCGTTGGCGGGAGGGA	2.13811.C2	el [SEQ
	GTTACCTTTCCCAGTCTCGCCTCTGGCCGCCTGAGCCAGGAGGAGGAGCAGCGGCGAGGGTCTG CGGGAGGCATGGCGGGACAGCCCCCCCGCGGGGCCACGGGAGCAGC TGCAGCAACACGTCTCTTGCCAGGTCTTCCCCGAGCGTCTGGCCCAGGGGAATCCCC AGCAAGGGTTCTTCTCCAGCTTCTTCACCAGCAACCAGAAGTGCCAGCTTAGGCTCCTGA		
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30	ATATGAACAGAGTGGTCACACACGAGCTTATTCATGCATTTGATCATTGTCGTGCCCATG TCGACTGGTTCACCAACATCAGACATTTGGCGTGCTCAGAGGTTCGAGCTGCTAACCTTA GTGGAGACTGCTCACTTGTCAATGAAATATTCAGGTTACATTTTTGGATTAAAACAACACC	•	
	ACCAGACTTGTGTGCGAGACAGAGCCACTCTTTCTATCCTGGCTGTTAGGAATATCAGCA AAGAAGTAGCTAAAAAGGCTGTTGATGAAGTTTTTGAATCTTTCAATGACCATGAAC CTTTTGGAAGGATCCCACATAACAAGACTTATGCAAGATATGCTCACAGAGACTTTGAAA		
35	ACCGTGATCGGTATTATTCAAATATATGAGCACAATGACATTTTTATATATA	÷	,
40	TAACTATGGCAAAAAATGAAACTGCTTTAAACTCCAAGGCAGAAATTGTATCTTTATAGC TAACCATTTAGTAAATAAATACATTTACATTTTTTGTATTTTTAGTCATTTTTTTATTACA TGTGATTATTTTAAAATTGGATTATGAAACCTGTGAAGTGTGCTCTTCCATGATGTTGAT ACCTACATTAGTATGAAACTGAAAACCTGTGAAGTGTGCTCTTCCATGATGTTGAT		•
40	AGGTGACCACTGTTGGTATTTACATTAAATGTAAAGAAATGTGTACTG >H_1.0.0_21891 Homo sapiens hypothetical protein FLJ10925 (FLJ10925), mRNA cr: gi- [Human_jongleur_201102.10074.Cl] [SEQ ID NO: 169] CCCACGCGTCCGGGGCTCCGGGTTCGGGTTCGGGTTCGTTGCCCCGGTGCCGGGACCG	-21361725/,	//
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50	ACCGCCCTGGCCGCCCTGGCCTCGGTCAGCGCCGGAGGCGGGTTGCCGGGGGGGG		
55	ACGCTGCCTGTGGAGGAACCGATTGTGTCCACAGATGAGGTCATCTCCCCACTCACCGTT TCACTGGATAGACTGCCCCCAGGGACACCTAAGGCCAAGATTGTAGTGACTGTGGAAG CGGGAGATTGAGGCCACAGAGGTCAGAGATCAAGGCTACCTGCGATTGCTGCAGACCCGA TCTCCTGGGGAGACATTCCGGGGCGAGCAGAGCGCTTTCAAGGCCCAAGTGAGCACGCTG	•	
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60	CTGGTGGACAATGTCTGTCACCAGTCTGGGGAAGTCTCCATGGGCTCCTTCTGCCGCCTA CCCGGGACCTCTGGCTGCTCCCCTGCCCGCTGAATGCCCTGGAGGAACACATTCCTG TTTCAGCTGAGAGGGGGTGAGCAGCCCCCTCCAGGGGCCAAGGAGGGCCCTGGAAGTTCCC	•	•
65	CTGATTGCTGTGGTTCAGTGGTCTACCCCAAAGCTGCCCTTCACTCAGAGCATCTACACC CACTACCGCCTGCCCAGTGTCCGCTTGGACCGCCCGTGTTTTGTGATGACCGCTTCTTGT AAGTCCCCTGTTCGGACCTACGAGCGTTTCACTGTCACCTACACGCTGCTTAACAATCTC		
	CAAGACTTCCTTGCTGTAGGCTCGTGTGGACCCCAGAGCATGCACAGGCTGGAAAGCAG CTGTGTGAGGAGGAGCGCGGCCATGCAGGCTGCCCTCGACTCCTCCCACACG CCCCTCAACAACCTTGGCTTTCCCGGAAGGCAGCGCGCTCACCTTCAGCTTCGCCTTC CCCCTCAACAACCTTGGCTTTCCCGGAAGGCAGCACAACAACAACAACCACAACAACAACA	:	
70	CAGGCTCTGAGGACGGGGCTCTTCGAGCTAAGCCAGCACATGAAACTGAAGCTGCAGTTC ACCGCCAGCGTGTCCCACCCCAACGCCCGAGGCCCCTCTCCCGCAAGAGCAGCCCC AGCAGCCCTGCTGTCCGGGACTTGGTGGAGAGGCATCAGGCTAGCCTGGGCCGCTCCCAG		

 ${\tt TCCTTCTCCCACCAGCAGCCTTCCCGAAGCCACCTCATGAGGTCGGGCAGTGTGATGGAG}$ 

	TCCTTCCCACCAGCAGCCTTCCCGAAGCCACCTCATGAGGTCGGGCCAGTGTGAGGTCGG		
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	GACAAGGCTGTTGTCTCTGGACAAGATTGCCAAGCGCGAGTGCAAGGTCCTGGTGGTG		
	GAACCCGTCAAGTAGCACCGTGCCAGCTCTGTTCCCTCTTACACTCCAGAGACCCAACGC	•	
5	CCCCAGAGGGGATCCCTGCTCCTGGGCTGTGCCTCCCCTGGGATGCCTCCCAGACGGGGG		
	TGAAGAGGCCTGGCAGAGCTGCCTGTCTTGTGTCTGCTGATGAGGGATGGGGGAAGAAGC	•	
		a a	
	TGTGAAGTGGGCGGGCATGGCTAGGCCACCAGTATTCCCCGAGTTCCTGTGGGG		
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	TTTACCCTGGTTCTGAGTTTACAAAGTCTCTTCCTCATTCCCGTTGAGTTCTTTCCCACC		
10	TCTGACATTCCCTCCCTCCCCCCAGGGCTGAGATTAGAGGGTGATGATGGCTAAGGG		
IO			
	CCCCTGACAGTGACCTTCCTGTCTCAGGGGTTGGGGACAGGGCCAGGTAGCCTCCTGCCC		
	CTTATGTTTACGTTTGCAGCCTGAAGCACTTTAATTTTTTTT		
	AACTTATTTCCAACTATTGCTTCCAACTGAAATAAGACTATTAAATGCCTGTTCAGGAG		
	GGAG		
1.5	GGAG	h annighed library	
15	>M_1.0.0_382 Mus musculus adult male testis cDNA, RIKEN full-lengt	in enriched library,	
	clone:4930527E24:similar to XLR-RELATED, MEIOSIS REGULATED (XMR MR	RNA), full insert sequence cr: gi-	
	12854436/// /cds=(121,588) /gb=AK015913 /gi=12854436 /ug=Mm.48840	/len=733	
	[Mouse_jongleur_201102.16.C230] [SEQ ID NO: 170]		
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		•	
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30	ATGAAGCATGCAAATTTTTCACTTGATGGTACATTTCTAAGCAAATAAAAAATCCGCTAA		
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	>M_1.0.0_18911 AV323441 Mus musculus cDNA, 3' end cr: gi-6293358//	// /alana_6330409N17 /alane end=3!	
	SM 1.0.0 18911 AV323441 Mus midsculus CDMA, 3 End C1: 91-629333077	// /CIONCEOZSO405NI/ /CIONCEONAES	
	/gb=AV323441 /gi=6293358 /ug=Mm.180082 /len=233 [Mouse_jongleur_20	01102,12236.CI] [SEQ ID NO: 1/1]	
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40	CTCAGAGACTTTAAAAGCAAATATCAATCCCCTGTATACATAC	•	
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	CCTGTAACTAGCATTGTTCCAGGCAATTTTGAGAGAGAGA		
	TAAAGCCCTGGCATTTCTTTTTAGCACCG		
	>H_1.0.0_12524 Homo sapiens hypothetical protein BC013764 (LOC115)	207), mRNA cr: gi-19923972///	
45	[Human jorigleur 201102.4920.C1] [SEQ ID NO: 172]	, <del>-</del>	
73			٠
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E 5			
55			
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	AAAAAAAAAAAA	
	And 1565019E ab Director a large resident	
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	>M_1.0.0_48726 mu72a05.y1 Mus musculus cDNA, 5' end as: gi-4297220/// /clone=IMAGE:644	01.0
50	- 1	912
		LD NO: 184]
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55	GAGCTAACTGTCAAACTATGAAATAATCAGTGGATTAAACCTCTGATGTCATCACCCTTA	
	TGATACAATAATTCTTCAACAGTAGCACTTGCTGAGGAACC	*
	>M 1.0.0 17830 McGerately similar to brothshind	
	>M 1.0.0 17830 Mcderately similar to hypothetical protein FLJ11127 [Homo sapiens] [H.s.	apiens] cr:
	gi-11655306/// 602099928F1 Mus musculus cDNA, 5' end /clone=IMAGE: 4219807 /clone_end=5	/gb=BF581594
60	/gi=11655306 /ug=Mm.24851 /len=1126. [Mouse_jongleur_201102.11302.C1] [SEQ ID NO: 185] GGAGAGCGGGGGGGCGCGGGTGTAGCGGAGGGTGCGCGGGTGGAGGCGCGCAT	
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	TAAAAGAAGATAAATTCC	٠,			
	>M 1.0.0 1370 Mus musculus RIKEN cDNA 1500041N16 gene (150004	1N16Rik).	mRNA cr: o	ri -1338588	3///
20		114101C111, /			~,,,
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33		·			
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0.0					
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60	>M_1\0.0_15892 Mus musculus ring finger protein 26 (Rnf26),	mDMA are	ai - 2441528	111	
00	5M 1.0.0 15892 Mus Muscutus IIIg IIIngel process 26 (RHI26),	MINIMA CI.	91-2441330		٠.
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5	ACTCATGGGTAACCTCCAACATGGCAGCATCTATTAAACTGTACAAACAA	<b>,</b>						
10	AGAGAGAGAGAGAGAGACACAGACACAGATATAGAGAGATAGAGGCGGTTCTTGAG GGGACAGGCAACCGGGTGGGTGGTGGCGGAGGCCATTTTCAAAAGAAAATCTTGTCA CCTCACCTCTCATAACATTGATTGGTAATGAGGATGTTCAAACTGTTCTTCTAATTTTGT AAACCAATACATTGGCTCGAACCCTTCTTAGGCACACGAGAATAACAAATCCTCTTAACC CCCAAGGCCCTTG	,						
15	>gi 22356160 gb BQ940682.1 BQ940682 AGENCOURT_8877739 Lupski IMAGE:6198680 5', mRNA sequence [SEQ ID NO: 190] ATTTTTTAATTTCTTATATAAATGCTAACTTCTTGTCAGGACATACTACAGACTATGCA TTGAATTTTTTGACAAACTTCCTGTAATCTTTTTATTAATTTACACTGAGGGAATATAGC		tic_n	erve H	omo :	sapien	s CDNA	clone .
20	ACCTTTCATCCGAAGAACTGAAGGTGCTTTACAAACATTAGCATTTAAAAAACAATTACA TTTAAAAATCTGGATTCTTGATGGCAAATCTCTTCGACTCCAAATACACAATTTCCTGGA AGGTGATGGAAAGTGATTCCTGACAATGAAGGAGGGCTCGAAAGAGTCCTAGTTT GCCTTTCCGCAGACAGGCATTTTCCAAAACCTGGTGTCTGGGCTTACTAATCACAGGCGG	:						
25	GCGCATCCTAGTGGCGAGGAGACACCTTCCGAACCTTAGTTTGCCAAAACCATGACCG TACGGCCTGAGGGGGAGCGCGGAAATCGTTCCCGAGGCGTGCTCAAAGATGCCCCGACGG GAGTAGGGGAGCTGGGGGGGGATTGGCATACTGGGGAAGGGGGCGGCTGGGTCGGAGC GGCGGCGCCGACGGAGGCGCCCCTGCAGGGGGGGAAGGGGAGGGGAGACTTCTAGT	,						
23	GCGGGGAACCCCGCCTTAAGCCTCTCTAAACAAAGCCTGGAGCAGGAACGAGGAGCGTG CGGAACGGGCAAGAGGAGGAAGCGGGAAACGCGGGAGTTGGGGAGTAGGG GGGCCCGGGCGTGGCCGCCAGCGGCGGCGGGGGGGTCGGAGGCGTGGACGGGG TGCGACGGCAACGCCGGTACGGTA							
30	TGACGAACGATCGTGCTGGCGGGTTTGACATATCGTGTAGTGCACACACA							
35	AGCTGCGCGACGCACGAGGCGATCAGCGCAGAGCTCACACCGTCNCAACACGCAGCGA CGATAAAGACGACTACGTCAGTGGACACCCCCTAGACACNTCCTAGATGGACTCGACAGC GCGAAACAGATCTACCGCTNTCGTGTGGGGGGGGAAAGGCTNCTCAACGTGGACCGGC GGGCCTTAGGCGCCCGCGACGGATGCTGCGCGACCAAGGCGTGCCAGACGCGCCCCGG TCTTCTCCCCTGGGAATCGCTGCACGTGCAGGAGGGGGGGG							
40	TGCCGGGGGGGGGCGGCA >gi 15335166 gb BI495822.1 BI495822 df121a08.w1 Morton Fetal IMAGE:2540054 3', mRNA sequence [SEQ ID NO: 191] GGGCCCCCCCCCGAGTTTTTTTTTTTTTTTTTTTTGCGTTTAACATTTTTATTTTTAACTCC	Coch	lea H	omo sa	pièns	S CDNA	clone .	
45	GCTTTGGTAGTACAAAAGTCATAAAAGTACAAACCAGACAGTTAAAAATACACTTGACAC TCGAAATGGTGAAAATTTTCCTTACAAATTTTTACATCAAGGTAGTAGCCAACTCATTGA TGACACCAAAAAGTTGTCCATCATTAGTGTTTTCTAGAGAAAAGTCTGTTGTGGATTCCCT CATCCTTAGAAAGGAGGAGGAGAAACACAAGACCTGTAAACATCAGTTGCTTTGGGAACA CAAGAATTCTCATCAGATAGTTCAGTATAAACCAGTAAAAAGCGTATGTGTTGAAAAATAC							r
50	TGAACGCTTAATTTTGGCAAATTTGGAAGCCTGCCAGACAAAAACCGCTCAAGTATTTAT TAGAAAATATTTAAAACATACTCTTGGTATCAATACAGTTTTTAAAATATTTTTGAGTATTC TCTTGCCCTCGTGC >gi 2201613 gb AA473386.1 AA473386 vd64f01.r1 Knowles Solter clone IMAGE:805369 5', mRNA sequence [SEQ ID NO: 192]	mouse	e bla:	stocys	.· t B1	Mus mi	ısculus	CDNA
55	GTTTCTCTCAGTTTGCTCATGCAACTCTCTTTATTAACTGTCATTTTCTCATAGGGACTCC AGAGGAAGGCTTCCCTCTGCCTGTTCACAGGTGGGAGGTACACAGTAGGCTAGCCTCTGT CCGCTGTGGAGCTGACAGATAATAGCCAAATAATCCCAGCCTCATGCTTTCTATTTCCCT CTAGGCATTTCTCCTTACTATAGTTTAGAGTGTGTGGAAGTCCTTTATTTCCTTGAAGAA ATAGATCATTTCCTTTAATAAATTATGAATGTGAGTGCCAAAAATATCACATTGGCACAT				.•			
60	TTGACATAGG  >H_1.0.0_35549 Homo sapiens mRNA for YEA4 protein (YEA4 gene) [Human_jongleur_201102.22053.C1] [SEQ ID NO: 193] .  GTTGGCCGCGGGGAGAAGGGGAGACCGCGGGGGCCCCCAGTGAGAGCGGCTTTCCAGGACG	cr:	gi-2(	38703	0///			
65	GTGCGATGTGCTGCGCAGCGAAGAGGCAGGAGCCGCCTTCCTGGGGTAGCGGTACAGGC GGGCGCTTACTCTGTGGCTTGCTTCCCCAACCCTGCACCGGCCATGCGCCCTGGCCC CGGTGGGCCTGGTGTCGCAGGCTGCTGCAGTGAACGTGATCTTCCTAGAGCTCCTGGCCC GGAAGCATCCAGGATGTGGGAACATTGTGACATTTTTTTT				<i>.</i> •	:	•	
70	AAGGCTTCCTCTTTGAAGCTGATTTGGGAAGGAAGCCACCAGCTATCCCAATAAGGTACT ATGCCATAATGGTGACCATGTTCTTCACCGTGAGCGTGGTGAACAACTATGCCCTGAATC TCAACATTGCCATGCCCCTGCATATGATATTTTAGATCCGGTTCTCTAATTGCCAACATGA TTCTAGGAATTATCATTTTGAAGAAAAGATACAGTATATTCAAATATACCTCCATTGCCC TGGTGTCTGTGGGGGATATTTATTTTGCACTTTTATGTCAGCAAAGCAGGTGACTTCCCACT						::- :- :-	
•	CCAGCTTGAGTGAGAATGATGGATTCCAGGCATTTG1GTGGTGGTTACTAGGTATTGGGG				•		•	

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{\tt CATTGACTTTTGCTCTTGATGTCAGCAAGGATGGGGGATATTCCAAGAGACTCTCTACA}
      {\tt AACGATTTGGGAAACACTCCAAGGAGGCTTTGTTTTATAATCACGCCCTTCCACTTCCGG}
      {\tt GTTTCGTCTTGGCTTCTGATATTTATGACCATGCAGTTCTATTCAATAAGTCTGAGT}
      {\tt TATATGAAATTCCCGTCATCGGAGTGACCCTGCCCATCATGTGGTTCTACCTCCTCATGA}
      ACATCATCACTCAGTACGTGTGCATCCGGGGTGTGTTTATCCTCACCACGGAATGCGCCT
      \tt CCCTCACCGTCACGCTCGTCGTGACCCTACGCAAATTTGTGAGCCTCATCTTTTCCATCT
      GGACCTTAATGTACACAGAGGTGTGGAACAACCTAGGGACCACAAAAAGTGAGCCTCAGA
      AGGACAGCAAGAAGAACTGAGGCCTGCCTGGAGTACGTAGACCAGTGTCGTCATGAGGGA
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      GGGACCCTGTGAAGGTCTGACCACCGTTTCGCTTTTGTTAATGCCGAGCTACCCGCAGTG
      {\tt CTGAGCCAGCCGTGCAAAAGGAAATCTTCAGGAGGGGACTTCTCACGTTGCTCAGACTGA}
      CACATGTAGACTAAATAGAAACCCCTCAGCCCTAAAATAGAAAAAAGAACAGTTCTAGAC
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      GTTTTCTGAATTCTGAGTCTCCTGAACAAAAGGCTTACTATCCATGGTCTTGGAAAAGAT
15
      TGTCCCTTCTCTGCTGTTCTAATGCATCTCTGCTACAGCAGTCATTGTCATCCTGTGAC
      ACGCTGCAGGCACCACTATCACCAGGAGTGGCCAAGTAAACCGAGACACCAGTAACAGCA
     \tt GGGCTGGACTTCCTCCAGCGTTTTGGGAAGGAAGAGATGTTCCCCTGAGCTGATTCCCA
     GTGACAGTGCAGCAAGACTAGTGGGACTCCTCTTTC
20
     >H_1.0.0_9281 Homo sapiens DKFZP566H073 protein (DKFZP566H073), mRNA cr: gi-14149701///
      [Human_jongleur_201102.3235.C1] [SEQ ID NO: 194]
     AGCGGCGGAGGCCAGAGGGAGGAGGACCGGAAGTCCTTCATCTCAAGCATCCAATGCT
     {\tt GAAAGCGGCCTGATTTCTCTACCGGAAGCCCTTTTCCAGAGGCTGGGAACACGGCCCAC}
     \tt CTAGCAGGAAGTCCCACCTCCTTGAGCTCCGCCACCCTTCCCGAAGTTTTTCTGTCACCT
25
     {\tt GTGTTAGGCTCCGTTTCCGCGTTTTATCCCCGTACCAGAAAAGGATACATTTAGT}
     {\tt GCCTCCCACCCAGCTCCACTAAACGGGTTGGATATCTCATTCTTTGAGTTGGTGTTCCTT}
     \tt CCCCGGCGCCCCCATGTAGCTGGGAAGTGGGACCTGGGGTGGTTGGACCCCTGGGATCC
     TAAAGGAGGGCAGGAGGCGCAGAACTCCGCTTCTGCTCCTTGCTACCAGGACGCGCG
     {\tt GCCTCCTCAGCCTCTTTCCTCCCGCTGCCATGCACCCTGCAGCCTTCCCGCTTCCTGTGG}
30
     \tt TTGTGGCCGCTGTGCTGTGGGGAGCGGCCCCGACCCGGGGGCTCATTCGAGCGACCTCGG
     ACCACAATGCCAGCATGGACTTTGCAGACCTTCCAGCTCTGTTTGGGGCTACCTTGAGCC
     AGGAGGGCCTCCAGGGGTTCCTTGTGGAGGCTCACCCAGACAATGCCTGCAGCCCCATTG
     \tt CCCCACCACCCCCAGC\underline{C}\underline{C}CGGTCAATGGGTCAGTCTTATTGCGCTGCTTCGAAGATTCG
     ACTGCAACTTTGACCTCAAGGTCCTAAATGCCCAGAAGGCTGGATATGGTGCCGCTGTAG
     TACACAATGTGAATTCCAATGAACTTCTGAACATGGTGTGGAATAGTGAGGAAATCCAGC
     {\tt AGCAGATCTGGATCCCGTCTGTATTTATTGGGGAGAGAGCTCCGAGTACCTGCGTGCCC}
     TCTTTGTCTACGAGAAGGGGGCTCGGGTGCTTCTGGTTCCAGACAATACCTTCCCCTTGG
     GCTATTACCTCATCCCTTTCACAGGGATTGTGGGACTGCTGGTTTTGGCCATGGGAGCAG
     TAATGATAGCTCGTTGTATCCAGCACCGGAAACGGCTCCAGCGGAATCGACTTACCAAAG
40
     AGCAACTGAAACAGATTCCTACACATGACTATCAGAAGGGAGACCAGTATGATGTCTGTG
     CCATTTGCCTGGATGAATATGAGGATGGGGACAAGCTGCGGGTACTCCCCTGTGCTCATG
     {\tt CCTACCACAGCCGCTGGCTCGACCCCTGGCTCACTCAGACCCGGAAGACCTGCCCCATTT}
     {\tt GCAAGCCTGTTCATCGGGGTCCTGGGGACGAAGACCCAAGAGGAAGAAACTCAAGGGC}
     45
     TGGGTTCTAGCCCCACTCTTCCCACCTCCTTTGGTTCCTTAGCCCCAGCTCCCCTTGTTT
     TTCCTGGGCCTTCAACAGATCCCCCACTGTCCCCTCCTCTTCCCCTGTTATCCTGGTCT
     AATAACCCCCCACACATACACCTCTGGTGACCTATTTGCACAGACCGTCGTCTTCCCTCC
     AGTCTTCTGAGGGATAGGGGACATTCCATCCCAAGCTTCTCCCTTACCCACACCTATCCT
     TTTGAGGGGCTTTGGGGTGGGGCTGGGCCAGCAGGGACTGCGTCTTCACTTCTTGGG
50
     CTAATAAAATTGTTTCTTTGTGGCCTN
     >H_1.0.0_13591 Homo sapiens heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)
     (HNRPU), transcript variant 1, mRNA cr: gi-14141162/// [Human_jongleur_201102.5470 C3] [SEQ ID NO:
     TTCCACGAAGAGCTGGAGAAACACATAAGAAGGCAGATCTAAGATGGAAGAAAAGGCGGA
55
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     CTGGGAAGGAGAAAGCCAAACGAGTATAGCCACCAAAGACCCAGAAAGGCCAATATATC
     \tt ATGCAGTGAGTCGGTTGAACTGAAAGGCGGTTTCCTTTTCCTCCATTTGCTCAGTCCCAA
     \tt TTGGAAGCGCACTGCGCGCCTCCCACCGCGCTCTCGGCCGGGTTCGGCGTGGAGGCGGG
     60
     {\tt GAGAGGACGTTGCGTGCTCGCGCCAGGCGAGTCTCCGCGTCTCCCTCGCGAACTCG}
     \tt GTGAAAGGAATTGGCGCCGTTCGACACCAGGCGGATCCGCTCTGCAGCACGAACCCATCT
     GCCGAGTGAGCGGAGCCGAGTTTGAGGCAGCGCTAGCGGTGAATCGGGGCCCTCACCATG
65
     AGTTCCTCGCCTGTTAATGTAAAAAAGCTGAAGGTGTCGGAGCTGAAAGAGGGGCTCAAG
     AAGCGACGCCTTTCTGACAAGGGTCTCAAGGCCGAGCTCATGGAGCGACTCCAGGCTGCG
     GGCGATGAAGAGGAGGAAGAAGAAGAAGGAAGGAAGGAATCTCCGCTCTGGACGGC
70
     GAGGAGGAGGAGGCCGCCTCGGAAGACGAGAACGGCGACGATCAGGGTTTCCAGGAAGGG
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 $\tt GGGGCGAGGCAGCAGCAGCAGGCGGAGGTAAGAAGAAGGCGGAAGGCGGCGGAGGC$  $\tt GGCGGTCGCCCCGGGGGCTCCGGCGGGGGGCCGCAAAACAGAACAGAAAGGCGGAGATAAA$ AAGAGGGGTGTTAAAAGACCACGAGAAGATCATGGCCGTGGATATTTTGAGTACATTGAA GAGAACAAGTATAGCAGAGCCAAATCTCCTCAGCCACCTGTTGAAGAAGAAGATGAACAC  ${\tt TTCGATGACACAGTGGTTTGTCTTGATACTTATAATTGTGATCTACATTTTAAAATATCA}$ AGAGATCGTCTCAGTGCTTCTTCCCTTACAATGGAGAGTTTTGCTTTTCTTTGGGCTGGA 10  $\tt GGAAGAGCATCCTATGGTGTGTCAAAAGGCAAAGTGTGTTTTGAGATGAAGGTTACAGAG$ TGGTCACTAACTACAAGTGGAATGTTACTTGGTGAAGAAGAATTTTCTTATGGGTATTCT CTAAAAGGAATAAAAACATGCAACTGTGAGACTGAAGATTATGGAGAAAAGTTTGATGAA AATGATGTGATTACATGTTTTGCTAACTTTGAAAGTGATGAAGTAGAACTCTCGTATGCT 15  ${\tt AAGAATGGACAAGATCTTGGCGTTGCCTTCAAAATCAGTAAGGAAGTTCTTGCTGGACGG}$  $\tt CCACTGTTCCCGCATGTTCTCTGCCACAACTGTGCAGTTGAATTTAATTTTGGTCAGAAG$  ${\tt GAAAAGCCATATTTTCCAATACCTGAAGAGTATACTTTCATCCAGAACGTCCCCTTAGAG}$ GATCGAGTTAGAGGACCAAAGGGGCCTGAAGAGAAGAAGATTGTGAAGTTGTGATGATG ATTGGCTTGCCAGGAGCTGGAAAAACTACCTGGGTTACTAAACATGCAGCAGAAAATCCA 20 GGGAAATATAA CATTCTTGGCACAAATACTATTATGGATAAGATGATGGTGGCAGGTTTT AAGAAGCAAATGGCAGATACTGGAAAACTGAACACACTGTTGCAGAGAGCCCCCCAGTGT CTTGGGAAATTTATTGAGATTGCTGCCCGAAAGAAGCGAAATTTTATTCTGGATCAGACA AATGTGTCTGCTGCCCAGAGGAGAAAATGTGCCTGTTTGCAGGCTTCCAGCGAAAA GCTGTTGTAGTTTGCCCAAAAGATGAAGACTATAAGCAAAGAACACAGAAGAAGAAGCAGAA 25  $\tt GTAGAGGGGAAAGACCTACCAGAACATGCGGTCCTCAAAATGAAAGGAAACTTTACCCTC$ CAAAAACTCTTGGAGCAATATAAGGAAGAAAGCAAAAAGGCTCTTCCACCAGAAAAGAAA CAGAACACTGGCTCAAAGAAAAGCAATAAAAATAAGAGTGGCAAGAACCAGTTTAACAGA GGTGGTGGCCATAGAGGACGTGGAGGACTCAATATGCGTGGTGGAAATTTCAGAGGAGGA 30 GCCCCTGGGAATCGTGGCGGATATAATAGGAGGGGCAACATGCCACAGAGAGGTGGTGGC GGTGGAGGAAGTGGTGGAATCGGCTATCCATACCCTCGTGCCCCTGTTTTTCCTGGCCGT GCTACTTACTCAAACAGAGGGAACTACAACAGAGGTGGAATGCCCAACAGAGGGAACTAC AACCAGTGGCAGCAGGĞTCAATTCTGGGGTCAGAAGCCATGGAGTCAGCATTATCACCAA 35 GGATATTATTGAATACCCAAATAAAACGAACTGATACATATTTCTCCAAALCCTTCACAA GAAGTCGACTGTTTTCTTTAGTAGGCTAACTTTTTAAACATTCCACAAGAGGAAGTGCCT TTTAATTGCAGTTTAAAAGTGAATCGTAAGAGAACCTCAGCATTGTGCACGATAAGAGAA 40 CATTTCTCACAGAGAATAACAGTCGGGAGTCATTGTCACAATATAATAGAAATGTTAGCA ACCAGATTCATGTAAGGACTAAGTGGTCCTCATGAATTGCATTAAGACTCTGTACTGCTC ATATTACACTCCATCCTCTGTAGTTTGCTGGGTAGTGGAGGGGGTAAGCTAAATCATA GTTTCTGACAATAACTGGGAAGGTTTTTTCTTAAAATAACAATGGAATTGGTATAATTGG 45  ${\tt TAAAAATGTAAAACTTGGTTGCATTATTTGTGGAGGCTCAAACTTGTGAAGGTTAATACC}$ TTATTAAAAAAACTTGTTGTAAATCCAGTTGTCTAATGGGATCTATATGAAGTTAGCCAT GTCTGTATGCCCTTCTCCCACAAATACTGTATAACTAGTGTGCTTGTAGTAGTTAACTC 50 CACCATCTTTGTAAGCTAATGAAATTGTGAGTCACCCATTTATATCTTAATTTTTAATCA  ${\tt TTTGGGATTCTCGCCATCAAGGTTCAAAATCCCTTTATATAACTCCCAAGAGGAGAAATT}$ TATTAAGTGTGTGCTTTCTGGACAGCTTATTCTTTACTCTGCATAGAACATTTAGGTTTT 55  ${\tt AAAAACTTAAATGTATACTGACAATTGATACATAATTATGAAGTAAAGTTGAATTCTTCC}$  ${\tt GAGAAGTTAACACTGAGTTTATCATCTTTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGTCCTCAACTGATTACAGAATGCTAATGCTGATTACAGAATGCTAATGCTGATTACAGAATGCTAATGCTGATTACAGAATGCTAATGCTGATTACAGAATGCTAATGCTGATTACAGAATGCTAATGCTGATTACAGAATGCTAATGCTGATTACAGAATGCTAATGCTGATTACAGAATGCTAATGCTAATGCTGATTACAGAATGCTAATGCTAATGCTGATTACAGAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAA$ TTTTATATACATATATATGATACATGAAACTCTGGGATCAGATGCTTTTAGAAGCCATCA TGCAAGCCAGTCATTGATGTCACTGCTACACACACTGCTAACTTGACTGTAGCTATGTA 60 ATAACATTAGATCCCCTAATTGTAATTATATTGGGTTTGCACAGAACACTTTAATCTTCC CCTCACCAATGTGAAGTGAGGAATCAGGAGTCAAACTGTAGAACTAAAATTTGACTTCAG TCTAGCGTTTCCTTGGTGTTTTTAGGTTGCTTTGGTAAGTTTAGGTTTGCTATATTTCTG ATTGCTTAGAATTTTGTTTTAGCCCTTTAAAATCAGATCATAAATATGAATTCATACTTC  ${\tt TAAGGAATT'ITCTTGCTATAAGCTGGAGTTTAGGTGATGTATAGGTTCAGTTGAGACATT}$ TTTGGAACAGGCAAATCCTTAGTTAACATAAGATATTTAACAGTTGAAGATAGTGTCATG GATTTTTATCTTTTTAGCAAGTAATGCTAAGAACCACTGGCCTGAGCTACTACTCTTCA GTATACATTATTAGGATTGCATAGACTTACTAGAGGAACAGTTTCAGGTTTTGATGCTAA GT!TAAAATTGCTTATTAAGGAATTCATTTTATAATTGCAGTGGGAAAGTAATGGTCAAG 70 TAACACTAGGTAGACTATCATGCCTGTTTAGCCCAGAGAATTTGGGGGGAGAGAAATAG ATAAAAATGGCACCCAGAAAAATGTTAAAATCTTTAGTCAAGACTAGAATTAATACAATT

	GTCTACACTTGTATGGCAGAAATAACCTTATAAAGTGTTTAAGGAATTCAGAGAAGGGAA	
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5		
5	TGATTTGAAGGGTGCTTTCACTAAGGTTATATTTTAAAGTAGAATAACACATGCTGAGTG	
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10	ATTGAAATGACAAGAGGAAACTCTTAAATACATAAAAACAAGCTCTCATTTGCCTAGGAT	
	AGATACTGTCTTAAAAATAAAGACTGAACCTAGATGTTCTGAGCACCAACCA	÷
	TTTAACAAGTTTAAAGGAATTCTCTGAAAAAGTTATAAAATTATTCTAGGAAACATAACC	
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15		-
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	TGTTGTATTAAAATATTTATTGTTATTACCGTGTTTTGCTGCCCCGGTAAATTTTTGCACA	• •
	CCTGCCTTACTCAGTCCCGAAGCCTGGCCTGGGTCCTGATGATCAGGGATATACTCAGCG	**.
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	TACTCTGGAAGAAGTCAACTCCCAAATAGCCCTAGAATACGGCCAGGCAATGACGGTCCG	•
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30	GGACCTGAAGAAGGCCATCCAGAGATACGTGCAGCTCAAGCAGGAGCGTGAAGGGGGGCAT	
	TCAGCACATCAGCTGGTCCTACGTGTGGAGGACGTACCATCTGACCTCTGCAGGAGAGAA .	*
	ACTCACGGAAGACAGAAAGAAGCTCCGAGACTACGGCATCCGGAATCGAGACGAGGTTTC	. •
	CTTCATCAAAAAGCTGAGGCAAAAGTGAGCCTCCAGACAGGACAACCCTCTTCATCACTG	••
	GTGGCTGAGCTTTTTCCCAGGAATGGGTCCTCGAATCATCGTGCCTCTTTCACAGAA	
35	AGGACGTTGTGGTGGCCTCACCCCAGGCATGCCCAACAGGAACTGTCAGCATAAACCTGG	٠.
	AGGACGITGIGGIGGCCICACCCCAGGCAIGCCGACAGGAACIGICAGCAIAAACCIGG	· •
	aaaaaamaa aaaaaaaaaaaaaaaaaaaaaaaaaaaa	
	GGGCCCTCAGGACTAGGACAGGGTGAGCCAGTGCTCCCTTCCTT	e.
	GACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGGCCCA	4. 4.
	GACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGGCCCA CTGTATAAAATAAA	t.
40	GACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGGCCCA CTGTATAAAATAAA	L homolog, S.
40	GACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGGCCCA CTGTATAAAATAAA	L homolog, S.
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40 45	GACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGGCCCA CTGTATAAAATAAA	L homolog, S.
	GACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGGCCCA CTGTATAAAATAAA	L homolog, S.
	GACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGGCCCA CTGTATAAAATAAA	L homolog, S.
	GACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGGCCCA CTGTATAAAATAAA	L homolog, S.
	GACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGGCCCA CTGTATAAAATAAA	L homolog, S.
45	GACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGGCCCA CTGTATAAAATAAA	L homolog, S.
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30	>M_1.0.0_69492 L0901E07-3 Mus musculus cDNA, 3' end as: gi-12528688/// /clone=L0901E0 /gb=BG060262 /gi=12528688 /ug=Mm.171750 /len=128 [gnl UG Mm#S1912259] [SEQ ID NO: 199	07 /clone_end	i=3 '
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45 50 55 60	ID NO: 200]  GCCGCAGTCCCTAGCCCGCCCGGTGCCCGCCATGTCCGAGATCCTACCCTACGGTGAGGA  CAAGATGGCCGCTTCGGCCGCAGACCCCGAAGGTTCCGACCTCTTTTCAGCTGCGCCT  GCAGGACACCAACTCTTCTTCGCTGCAACCAGGCCCAAGCGGCCCCCCAAGCTGGCCC  GATGGGCGAGCCAAGAGAGTGGTAATCAAGGATGACCGCATAGACGG  GATGGGCGAAGACACCTCCGTCCGGAGTGTAGACCGCCGGCTCTGGCGGGCCCCCCGCC  GATGGGGGAGAAGCCTCCGTCCGGAGTGTAGACCGCCGGCTCTGGCGGCGCCCCCCGCC  CCGGGCCCAGCGCCCAGCGCCCAGAGCCACGGGCGGCGGC	2.12242.C1] [	
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	>M 1.0.0 18174 Mus musculus. Similar to hydroxysteroid 17 hete del	vdrogenase 11	clone McC 30360
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25	CCTGGAATTTCTCCTTCTGGTGGGCGTCATCATCTACTCCTGCGAGTCACTGGAACCTCAT		•
	GTTCTTCATTCCCCGGAGAAGGAAATCTGTGACCGGGCAGACCGTTCTCATCACCACCCCCCC		•
	CGGACACGGAATAGGCAGGCTGACTGCATATGAATTTGCAAAGCAGAAAAGCAGACTGGT		3
	TCTATGGGATATCAATAAGCGTGGTGTTGAGGAAACCGCGGACAAATGCAGGAAACTGGG GGCCGTCGTGCACGTGTTTGTGGTGGACTGCAGCAACCGGGCCGAGATTTACAACTCTGT		
30	GGATCAGGTAAAGAGAGAAGTAGGTGATGTCGAGATCGTGGTAAACAACGCCGGGCCCAT	•	
	ATATCCAGCAGACCTTCTTAGTGCCAAGGACGAGGAGATCACCAAGACCCTTTCACGTCAA		••
	TATCCTCGGACATTTTTGGATCATAAAAGCACTCCTTCCATCGATGCTGAGAAGAAACTC		
	TGGCCACATTGTCACAGTGGCTTCGGTGTGCGGCCACGGAGTGATTCCTTATCTCATCCC TTATTGCTCCAGCAAGTTTGCTGTGGGGCTTCCACCGAGCACTGACCGCAGAACTGGA		•
35	CACCTTGGGGAAAACCGGTATCAAAACCTCGTGTCTCTGCCCCTGTGTTCGTGAATACTCG		
	CTTCACCAAAAACCCGAGTACAAGGTTATGGCCTGTATTAGAGCCCGGAAGAACTTCCAAC	,	
	GAGTCTGATCAATGGAATACTTACCAACAAGAAAATGATTTTCGTTCCATCCTATATCAA		
	TATTTTCTGATCCTGGAAAAAGGACCTGGATTCAGTTCCAAGCACCCACATGGTGGTTC TCAACAGCCTGTTACTCCAATCCCAGGGGATTTGACACCCTCTTCAGACTTTCTCAAACA		·
40	CTAGGCACTCGTGGGGTACGCATACGTCATTCAGGCAAGCCCTCATACACATAAAAATAGA	•	•
	ATAAGCACATATTTTAAATGTGCTACTATTACTGATGTTTTTAAGCCAGTTAAATTTAAGCCA		
	ATTTTCTTAACAGCAATAAAATATTGTAGATAATGTCATCATGCTAGCTGCATCACTCTG		. •
	ACTGTATAAACCCAAGAGAATTTCACTCCATCTCCTTCTGCCAAAATATTTACAACACTT AAGAAATAAGGGCTGATTTTAATTTTTTTAACATAAAATATATGAGACAGTTGTATCCT		
45	GTCAGCTAAAAATGTTTTCTCTGGCCTGTGAGTTGGCTCAGTAGATGAAGACACTTGCTG	·	•
	CCAAG		*
	>M_1.0.0_13590 AV375328 Mus musculus cDNA, 3' end cr: gi-15412285/	// /clone=9130	023H10 /clone_end=3'
	TCATTCTTTATCTCCTTCAAGCGCTGATGGTGCTCACTGATACCCAATCTCAATCTCCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAA	1102.8131.C1]	[SEQ ID NO: 205]
50	CCCGGTCTGTGGAGATGCGGCTCCTCCCGCACCAACTAGAGCTGGTAACCAACC		
	AGCCAAACTTCAAGTATCCCTGGAACATTCCCTTCACAGTCCAGCCTCAGCTTCTTCCCCC		
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	TCTATGGAAGCCTGTCATTTTTACAGCAACTTCGGAAGGCTAACTCTTCCTTC		
55	GCCTCCGTCCTGGATACATTTGATATATTGCACCATGCATCTTTTAGGCCAGTGCGAATA	•	
	AAGATGCTATGGCTCTTTTTTTTTTTTTTTTACGTATTATTCATTC		
	TAATATACTTGGATCAGATTCTACCTACCCTCCATTGITTCTTTTAATCCACCCCTTCCA AGTTCCTTTTTCCTCAACAACTTCTCATTCATCATTTGTTTG		
	ACGTTTAATTAGGGTTGTTTGCATAAGTGTGTGATTATTCATTTGAGCAACGGTAGCCTT		
60	CCAGAGGCTACCTCCTGCCAGCAGCATTGAGAGCCTGTAGGTGTTTTTAGGGAGGG		
	TTCTCCTCCATTCTTGTGGAATGTTGGTGGGCTCGGGCTTGCTT		
	CCATTGCCACTTTGAGTTTATGGGTTTAGCTATTCCATATCCTTACCACTTTTAGGAAAC AGGATGTTTTTTTTTT		•
	TCTCTATAT		•
65	>H_1.0.0_58925 Homo sapiens cDNA FLJ34661 fis, clone KIDNE2018989,	weakly similar	r to Homo saniens
	minua for marr-f-binding procesh 2 (KARO) ej. ej. ej. 21750471///		
	[Human_jongleur_201102.cl.16699.singlet] [SEQ ID NO: 206] GGATGCCAGCTGAGTGCTGGCCCTGGCCCTGGTCCTGGCACGAGAGGAGCCTCTGTTC		
٠,	CCAAAGCTGGGGTAGATGTGTTGCTGGACTCACGTGCACACACA		
70	GGGCAGGGCCCGCAGTCCCCTGGTGTGGGTAGAACACCCTCAACCCTCTCTCCCCCTCCACA	, •	
	GGGCCTTCCATCCCCAGGGTGTGCCTCAGGGCCCCGAAGCCCAGGCTGGCCCTCCCCAC		

	,	
	TCTTCCTGTACTCCTGGCTCATGCCCCTGGTGCCTTTGGGTCCCCACGCCATCTGCCCAT	3
	GGCCTGAGGCCCTAGGCTGGGAGGCTGTCCCATGGATCTCTGCCGCAGTACTGTGG	
	CTCAGTGAAGGGTGCCAAGTACACCTGTGCCCTCCGCTGGTAGCTGCTCTAACACCCCTTC	
	TGAGCCCGCAGGCCCCATGACCAGGGAGGGAGGGCTGTGAGCAGAGTCCTGCCCTG	
5	CCCCCAGATGTCCATGGGCACAGCAAGCGGGGATGGTCCTCTGTGGCCACCAGAGCTGG	٠.
	CCTCCTACCTGGGGTGGCCGGACATCCGCGTCTGCAGAGCGGGGCCCACCCCGCCGCCG	
	AGGCAGCTGAGCTGTCCTGCGAGTGGATTGGTTTGAGGTCAAGGTGCTGCTGCTACTGCC	
	TTCTGCCCTGTGCACCCACCACCACCACGATCCCAGTGGAGCCTCTTTCCTGACTCC	
	CAGCATCCTCCCACAGCCCCCAACTGCTGGCTGCACTGGGCAGGCCTTGCGTATGG	
10	CTGGAGGCTGAGGCAGGGTTCGCTGGAGGAAGGGGTGGGGCCGAGGGTCACCCCT	•
	GCTTGGTGGAGCCTGCTGTCCCTACCCGACGTGGTGCACTGGTGGTGTTTTGACCCAAGCA	
	TGCGGCTCGCCATCATGCCCCGCTACAGTGCAGGAGCGCAGCTGCTGCCAGGCTTAGAGC	
	AGGGCTGGTGAGGAGGCCAGGACTCTGCCCAGGAGGGCGGAACCTGAAGCTTTGGGTCT	
	••	
	GACAAACTCAAGCAGGCAGGGAGGGACTGCAGTGGCCTTGCTTG	*
15	CCTTGCCTGTCTGTGTGCTCCAGCCTGGGCCGCAGCAGGTCCTGGTGGGGAGGTTTACTC	
	TGTTTTGGGGTCTGTCAGGCACTGCTTTTCCACCACCTGTAAGGGGGTTTCCCACCTAAT	•
	CAGCTGCAGACTGCTCCCGGGTTGCAGCCACTGGCCTGGGAGCACCAGGCCGCCTTCCCC	
	GCATGTGCCCTGGGGTGGTGGGGCCTTGTGGTCCCTGGAGCTCAGCAGCTGTTGATGTT	
20	TCAATGAAGGGCTACTGGGTGGGGGCACCAGCCTCGACGCTGCCCAGCCCTGCAGCACTG	
20	AGCCCTCTCCCAGAGGGACCCTGGGACTGCCACAGGGTGCTGAGTGCTTCTTTCT	
	TCTTGCTTCTAAAACCAATTCACTCACCAAGACACGAGGGCGCGGCAGCAGGGCTCGGAT	
	TACACGTCCACCTCTGAGGAGGAGTACGGCTCCCGCCACGGCTCCCCCAAACACACAC	
	TCCCACACCTCAACAGCCACTCAGACCCCGAGGGCTGGCAGCTCCAGCCGGGCTCGTTCC :	
	CGGGCCCCGGGCCCCGGGACACGACGACGACGAGGAGGAG	
25	ATCGTGCAGACGGCAGAGATTGCCGAGATTGCCAGGCTGAGCCAGACGCTGGTGAAGGAC	4
23		
	GTGGCCATCCTAGCCCAGGAGATCCACGATGTGGCTGGGGACGGTGACACTGGGCTCC 3	-
	TCGGAGCCTGCCCACAGCGCCTCCCTCAGCAACATGCCCAGCACCCCGCCTCGACCATC	
	TCTGCCCGGGAGGAGCTGCTGCAGCGCATCCCCGAGGCCAGCCTCAACTTCCAGAAGGTG	
	CCGCCCGGCTCGCAACTCTCGGGACTTTGACCAGAACATGAACGACAGCTGTGAGGAC	
30	GCCTGGCCAACAAGACGCGGCCTCGGAACCGAGAGGAGGTGATCTTCGATAACCTGATG	
50	CTGAACCCGGTGTCCCAGCTGTCGAGGCCATCCGTGAGGACACAGAGCACCTTGCCGAG	
		•
	AAGATGAAGATCCTCTTTCAGAACACAGGGAGAGCTTGGGAGGACCTGGAAGCCAGGATC	•
	AACGCCGAGAACGAGGTGCCCATCCTGAAGACATCTAACAAGGAAATCAGCTCCATCCTG	
	AAGGAACTGAGGCGGGTGCAGAAACAGCTGGAAGTTATCAATGCCATCGTGGACCCCAGT	
35	GGGAGCCTGGACCTGCTCCCCCACACTGAGCTCCTTTGTTCCTCCCCCTCCAGCCTTT	•
	GCCTGGGAACTGGTCCTTGTTTGCCGGACTTCTCGGAGGGTTCACTGTACATTCGTTCTC	•
	GCCTGGGAACTGGTCCTTGTTTGCCGGACTTCTCGGAGGGTTCACTGTACATTCGTTCTC  ALLGTGGTCTTCTTCTCGGAAAAATGGTTATTTTATATGATTTTGTCATGGAATTT	
	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT	
	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC	_TMAGE, 65 04 952
40	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC >M 1.0.0 50156 AGENCOURT 10389813 Mus musculus cDNA, 5' end as: qi-24032685/// /clone	FIMAGE: 6594852
40	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT  GTTCTAATAAATCATTCTTCTATC  >M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gnl UG Mm#S2807038] [SI	-IMAGE:6594852 EQ ID NO: 207]
40	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC >M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gnl UG Mm#S2807038] [SITCTTTGGGCAGGGGTTGTCTTTTAAAGGTGGCCCAAGGAGGGGCTTGGAGTTTTGCCCAACC	=IMAGE:6594852 EQ ID NO: 207]
40	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT  GTTCTAATAAATCATTCTTCTATC  >M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gnl UG Mm#S2807038] [SI	=IMAGE:6594852 EQ ID NO: 207]
40	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC >M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gnl UG Mm#S2807038] [SITCTTTGGGCAGGGGTTGTCTTTTAAAGGTGGCCCAAGGAGGGGCTTGGAGTTTTGCCCAACC	=IMAGE:6594852 EQ ID NO: 207]
40	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC >M 1.0.0 50156 AGENCOURT 10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [SITCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTGGAGTTTTTGCCCAACC AACCCAGGGCAGACTTTGAAGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTT TCAAGGAGAAAAGTTTTATTTCTCTTTTAAGGAACACATTATTTTGGATGTAAGGGATTC	=IMAGE:6594852 EQ ID NO: 207]
	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC >M 1.0.0 50156 AGENCOURT 10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gnl UG Mm#S2807038] [SI TCTTTGGGCAGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTT TCAAGGAGAAAAGTTTTATTTTCTCTTTAAGGAACACATTATTTTGAAGGGATTC CATACCCAATGATTCATCATCTTGGCCTAATTGGATCAATTTTTGAAGGGGGTCCTTTTT	=IMAGE:6594852 EQ ID NO: 207]
40 45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC >M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=mm.39474 /len=809 [gn1 UG Mm#s2807038] [SITCTTTGGGCAGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGTTGTCCCCAACCC AACCCAGGGCAGACTTTAAGGTAGCCCCATGGTTGGCCCATTCTCAAGTGGGGGTTT TCAAGGAGAAAAGTTTTTCTCTCTTTAAGGAACACATTATTTTGGATGTAAGGGATTC CATACCCAATGATTCATCATCTTCTGGCCTAATTGGATCAACTCTAAGCGGGTCCTTTTT TCAAGGAAAACCATTATCTCCTATCTATTAAATAAATAAA	=IMAGE:6594852 EQ ID NO: 207]
	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#s2807038] [SITCTTTGGGCAGGGGTTCTTTTAAAGGTGGCCCAAGGAGGGGTTTTGCCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATCTCTCAAGTGGGGGTTT TCAAGGAAAAGTTTTATTTCTCTTTTAAGGAACACATTATTTTGGATGTAAGGGGTTC CATACCCAATGATTCATCATTTCTGCCTAATTGGATCAATTTTTGAAGGGGGTCCTTTTT TCAAGGAAAACCATTATCTCCTATCTATTAAATAAATAACCCTAACCTTCTAGGCC ATTTACATTAGTTCTGACGCTATAGACCATATATTAAATAACCCCATGTTACAGTTCTTAGT	=IMAGE:6594852 EQ ID NO: 207]
	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  >M_1.050156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [StTCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTTGGAATTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTT TCAAGGAAAAAAAGTTTTATTTCTCTTTTAAGGAACAACATTATTTTGAAGGAGGGTCCTTTTT TCAAGGAAACAAACCATTATTCTCTGGCCTAATTGGATCAATTTTGAAGGGGGTCCTTTTT TCAAGGAAACAAACCATTATCTCCTATCTATTAAATAACATCAACCTTCTAGGCC ATTTACATTAGTTCTGACGCTATAGACATTATTTAAATAGCCCAAGTTACATTCTTAGT TCCATATGTCACACCTGCGACTAGAAATCCCAGGGTGGTGGTTACTAACATCACTACATG	=IMAGE:6594852 EQ ID NO: 207]
	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#s2807038] [SITCTTTGGGCAGGGGTTCTTTTAAAGGTGGCCCAAGGAGGGGTTTTGCCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATCTCTCAAGTGGGGGTTT TCAAGGAAAAGTTTTATTTCTCTTTTAAGGAACACATTATTTTGGATGTAAGGGGTTC CATACCCAATGATTCATCATTTCTGCCTAATTGGATCAATTTTTGAAGGGGGTCCTTTTT TCAAGGAAAACCATTATCTCCTATCTATTAAATAAATAACCCCATGTTACAGTCCTACTCTAGGCC ATTTACATTAGTTCTGACGCTATAGACATATATTAAATAACCCCATGTTACAGTTCTTAGT	=IMAGE:6594852 EQ ID NO: 207]
	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  >M_1.050156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [StTCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTTGGAATTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTT TCAAGGAAAAAAAGTTTTATTTCTCTTTTAAGGAACAACATTATTTTGAAGGAGGGTCCTTTTT TCAAGGAAACAAACCATTATTCTCTGGCCTAATTGGATCAATTTTGAAGGGGGTCCTTTTT TCAAGGAAACAAACCATTATCTCCTATCTATTAAATAACATCAACCTTCTAGGCC ATTTACATTAGTTCTGACGCTATAGACATTATTTAAATAGCCCAAGTTACATTCTTAGT TCCATATGTCACACCTGCGACTAGAAATCCCAGGGTGGTGGTTACTAACATCACTACATG	=IMAGE:6594852 EQ ID NO: 207]
45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  >M 1.0.0 50156 AGENCOURT 10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAAGTGGGGGTTT TCAAGGAAAAAGTTTTATTTCTCTTTTAAGGAACACATTATTTTGAAGGGGTTC CATACCCAATGATTCATCATTCTTGGCCTAATTGGATCAATTTTGAAGGGGTCCTTTTT TCAAGGAAAACCATTATCTCCTATCTATTAAAAAAAAAA	=IMAGE:6594852 EQ ID NO: 207]
	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  >M 1.0.0 50156 AGENCOURT 10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gnl UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTT TCAAGGAAAAAGTTTTATTTTCTCTTTTAAGGAACACATTATTTTGAAGGGGGTTC CATACCCAATGATTCATCATTCTTGGCCTAATTGGATCAATTTTGAAGGGGGTCCTTTTT TCAAGGAAAACCATTATCTCCTATCTATTAAAAAAAAATAACACCATCTATCAGGCC ATTTACATTAGTTCTGACGCTATAGACATATATTAAATAACCCATGTTACATTCTTATT TCCATATGTCACACCTGCGACTAGAAATCCCAGGGTGGTTACCAGTTACACATCATCATCATCATCAAAAAAAA	=IMAGE:6594852 EQ ID NO: 207]
45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC >M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/ /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCTAAGTGGGGGTTT TCAAGGAGAAAAAGTTTTATTTTCTCTTTTAAGGAACACATTATTTTGGATGTAAGGGATTC CATACCCAATGATTCATCATCTTCTTGGCCTAATTGGATCAATTTTGAAGGGGGTCCTTTTT TCAAGGAAAACCATTATCTCCTATCTATTAAATAAATATACATCAACCTTCTAGGCC ATTTACATTAGTTCTGACGCTATAGACATATATTAAATAGCCCATGTTACAGTTCTTAGT TCCATATGTCACACTGCGACTAGAAATCCCAGGGTGGTGTACATACA	=IMAGE:6594852 EQ ID NO: 207]
45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGCATGGAATTT GTTCTAATAAATCATTCTTCTC  >M_1.050156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone- /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [St TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTT TCAAGGAAAAAAGTTTTATTTCTCTTTTAAGGAACCATTATTTTGAAGGGGGTCCTTTTT TCAAGGAAACAAACCATTATTCTCGGCCTAATTGGATCAATTTTGAAGGGGGGTCCTTTTT TCAAGGAAACAAACCATTATCTCCTATCTATTAAATAACATCAACCTTCTAGGCC ATTTACATTAGTTCTGACAGCATATATTTAAATAGCCCATGTTACAGTTCTTAGT TCCATATGTCACACCTGCGACTAGAAATCCCAGGGTGGTGGTTACTAACATCATCATTCAT	FIMAGE: 6594852 BQ ID NO: 207]
45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  >M_1.050156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [StTCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTTGGAATTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTT TCAAGGAAAAAAACCATTATTTCTCTTTTAAGGAACCATTATTTTGAAGGGGGTTC CATACCCAATGATTCATCATTCTTGTAATTGAATTAAATAAA	=IMAGE:6594852 EQ ID NO: 207]
45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  >M 1.0.0 50156 AGENCOURT 10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone. /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAAGTGGGGGTTT TCAAGGAAAAAGTTTTATTTTCTCTTTTAAGGAAACAATTATTTTGAAGGGGTTC CATACCCAATGATTCATCATTTCTGGCCTAATTGGATCAATTTTGAAGGGGGTCCTTTTT TCAAGGAAAACAAACCATTATCTCCTATCTATTAAAAAAAA	EQ ID NO: 207]
45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  >M_1.050156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [StTCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTTGGAATTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTT TCAAGGAAAAAAACCATTATTTCTCTTTTAAGGAACCATTATTTTGAAGGGGGTTC CATACCCAATGATTCATCATTCTTGTAATTGAATTAAATAAA	EQ ID NO: 207]
45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  >M 1.0.0 50156 AGENCOURT 10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone. /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAAGTGGGGGTTT TCAAGGAAAAAGTTTTATTTTCTCTTTTAAGGAAACAATTATTTTGAAGGGGTTC CATACCCAATGATTCATCATTTCTGGCCTAATTGGATCAATTTTGAAGGGGGTCCTTTTT TCAAGGAAAACAAACCATTATCTCCTATCTATTAAAAAAAA	EQ ID NO: 207]
45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGCATGGAATTT GTTCTAATAAATCATTCTTCTC  >M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [StattttgggCagGgGttGtttttaAAAGGTGGCCCAAGGAGGGGCTTGGAACTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATCTCTCAAGTGGGGGTTT TCAAGGAAAAAAGTTTTATTTCTCTTTAAGGAACACATTATTTTGAAGGGGGTCCTTTTT TCAAGGAAAAAACCATTATCTCTCTATCAATTGAACCATTATTTTGAAGGGGGGTCCTTTTT TCAAGGAAAAACAAACCATTATCTCTCTATCTAATAAATA	EQ ID NO: 207]
45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTC  >M_1.050156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [StTCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTTGGAACTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATCTCTCAAGTGGGGGTTT TCAAGGAAAAAAGTTTTATTTCTCTTTTAAGGAACCATTATTTTGAAGGGGGTCCTTTTT TCAAGGAACAAACCATTATTCTCGGCCTAATTGGATCAATTTTGAAGGGGGTCCTTTTT TCAAGGAACAAACCATTATCTCCTATCTATTAAAATAAAT	EQ ID NO: 207]
45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  >M 1.050156 AGENCOURT 10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone. /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [St TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTT TCAAGGAAAAAAACCATTATTTCTCTTTTAAGGAACCATTATTTTGAAGGAGGTCCTTTTT TCAAGGAAACAAACCATTATCTCCTATCTATTAAAATAAAT	EQ ID NO: 207]
45 50	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  >M 1.0.0 50156 AGENCOURT 10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone- /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTTGGAGTTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTT TCAAGGAAACAACCATTATTCTCTTTTAAGGAAACCAATTATTTTGAAGGAGTCCTTTTT TCAAGGAAAACAAACCATTATCTCCTATCTATTAAATAAA	EQ ID NO: 207]
45	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTAT	EQ ID NO: 207]
45 50	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATCTTCTATC  M_1.0.50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=B09 [gn1 UG Mm#s2807038] [StTCTTTGGGCAGGGGGTTGTCTTTAAAGGTGGCCCAAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATCTCTCAAGTGGGGGTTT TCAAGGAGAAAAGTTTTATTTTCTCTTTTAAGGAACACATTATTTTGAAGTGAAGGGGTTC CATACCCAATGATTCATCATTTCTGGCCTAAATTGAATCAACTTAAGGAGGATTC CATACCCAATGATTCATCATTATCTCTGTATTAAAATAAAATAACATCAACCTTCTAGGCC ATTTACATTAGTTCTGACGCTAATATTTAAAATAAAA	EQ ID NO: 207]
45 50	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAAATAAATCATCTTCTATC  >M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone- /clone_end=5' /gb=BU847976 /gi=24032685 /ug=mm.39474 /len=809 [gnl UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATCTCTCAACTGGGGGTTT TCAAGGAGAAAAGTTTATTTTCTCTTTAAAGGAACACATTATTTTGAAGGGGGTCCTTTTT TCAAGGAGAAAAAGTTCATCTCTTATCTGCCTAATTGGATCAAGTGGGGGTTC TCATACCCAATGATTCATCATCTCTATCTATTAAATAAAT	EQ ID NO: 207]
45 50	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTAT	EQ ID NO: 207]
45 50	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAAATAAATCATCTTCTATC  >M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone- /clone_end=5' /gb=BU847976 /gi=24032685 /ug=mm.39474 /len=809 [gnl UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATCTCTCAACTGGGGGTTT TCAAGGAGAAAAGTTTATTTTCTCTTTAAAGGAACACATTATTTTGAAGGGGGTCCTTTTT TCAAGGAGAAAAAGTTCATCTCTTATCTGCCTAATTGGATCAAGTGGGGGTTC TCATACCCAATGATTCATCATCTCTATCTATTAAATAAAT	EQ ID NO: 207]
45 50 55 60	AGGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAAATCATTCTTCTATC  M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=mm.39474 /len=809 [gn1 UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAAGGTGGCCCAAGGAGGGGGTTGGAGTTTTGCCCAACC AACCCAGGGCAGCACTTTGAGGGTGACCCCATGGTTGCCCCATCTTCTCAAGTGGGGGTTT TCAAGGAAAAGTTTTATTTTTCTTTTAAGGAACACATTTTTGAAGTGGGGGTTT TCAAGGAAAAACATTATCTTCTGGCCTAATTGGACCAATTTTGAAGGGGGTCCTTTTT TCAAGGAAACAAACCATTATCTCTGTACTATTAAATAAAT	EQ ID NO: 207]
45 50	AUGITGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAAATCATTCTTCTATC  M 1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// clone /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAGACTTTGAAGGTGGACCCAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGCAGACTTTGAAGGTGGACCCAAGGAGGGCTGGAGTTTTGGCCAACC CACCCAGGCAGACTTTGATTTTCTCTTTTAAGGACACCATTTTTTGAAGTGGGGGGTTT TCAAGGAAAAAGTTTTATTTTCTCTTTTAAGGACACCATTTTTTGAAGTGGAGGTTC CATACCCAATGATTCATCATTTCTGGCCTAATTGGATCAATTTAAAGGCCCATTTTTTTT	EQ ID NO: 207]
45 50 55 60	AMGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGCATGGAATT GTTCTAATAAAATCATTCTTCTATC  M_1.0.0_50156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone. /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTTGAAGTTGGCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAAGTGGGGTTT TCAAGGAAAAAACATTTATTTCTCTTTAAAGGAACACATTATTTTGATGTAAAGGGGTCCTTTT TCAAGGAAAAAACAATTATCTCTATAAGGAACACATTATTTTGAATGTAAAGGGGTCCTTTT TCAAGGAAACAAACCATTATCTCCTATCATTAAATAAATA	EQ ID NO: 207]
45 50 55 60	AMGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTATATGATTTGCATGGAATT GTTCTAATAAAATCATTCTTCTATC  M_1.050156 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone/clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=B09 [gn1 UG Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGGCTTGAAGTGGGGGTT TCAAGGAACATTAATGTCTTTAAAGGTGCCCCAAGCAGGGGGTCTTTTTCCCCAACC AACCCAGGGCAGACTTTGAGGGTGACCCCATGGTTGGCCCATTCTCTCAAGTGGGGGTTC TCAAGGAAAAAACATTTATTTCTCTTTTAAGGAACACATTATTTTGAATGTAAAGGGGTCCTTTTT TCAAGGAAAAAACATTATCTCTATTAAGGAACACATTATTTTGAAGGGGGTCCTTTTT TCAAGGAAACAAACCATTATCTCCTATCTAATAAATAAAATAAAT	EQ ID NO: 207]
45 50 55 60	AMGTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  M_1.0.50155 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone. /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 Ug Mm#S2807038] [SI TCTTTGGGCAGGGGTTGTCTTTAAAGGTGGCCCAAGGAGGGGCTGGAGTTTTGCCCAACC AACCCAGGGCAAGACTTGAGGGTGACCCCATGGGTTGGCCCAACGAACCCAAGGGCAACCTTGAGGGGGACCCATTGACCCAACGACCACC ACCCAGGGCAAGACTTGAGGGTGACCCCATGGTTGAAGGAGGTTC TCAAGGAAAAACTTTATTTTCTCTTTAAGGAACACATTATTTTGGATGAAGGGGTTCTTTT TCAAGGAAAAACATTATCTTGGCCTAATTGGATCAATTTTGAAGGGGGTCCTTTTT TCAAGGAAACAAACCATTATCTCTATCTAATTAAATAAAT	EQ ID NO: 207]
45 50 55 60	AMSTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  M_1.0.50155 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [STCTTTGGGCAGGGGTTTTCTTTTAAAGGGGGGGGCTGAGTTTTGCCCAACC AACCCAGGGGCAGACTTGAGGGGTGACCCCATGGGTGGGCTCTTTTCTCAAGGGGGGTTT TCAAGGAAAAAGTTTTATTTTCTCTTTAAAGAACCAATTATTTGGATGTAAGGGGTTT TCAAGGAAACAAACCATTATCTGGCCTAATTGGATCAATTTTGAAGGGGGTCTTTT TCAAGGAAACAAACCATTATCTGGCTAATTGGATCAATTTTAAAGGGGTCCTTTTT TCAAGGAAACAAACCATTATCATCCATATTAAATAAATAA	EQ ID NO: 207]
45 50 55 60	Migrigatititititication  Migrigatititititicatic  Migrigatitititititicatic  Migrigatitititititicatic  Migrigatitititititititititititititititititit	EQ ID NO: 207]
45 50 55 60	AMSTGGTCTTGTGGCTGTCTTTCGGAAAATGGTTATTTTATATGATTTGTCATGGAATTT GTTCTAATAAATCATTCTTCTATC  M_1.0.50155 AGENCOURT_10389813 Mus musculus cDNA, 5' end as: gi-24032685/// /clone_end=5' /gb=BU847976 /gi=24032685 /ug=Mm.39474 /len=809 [gn1 UG Mm#S2807038] [STCTTTGGGCAGGGGTTTTCTTTTAAAGGGGGGGGCTGAGTTTTGCCCAACC AACCCAGGGGCAGACTTGAGGGGTGACCCCATGGGTGGGCTCTTTTCTCAAGGGGGGTTT TCAAGGAAAAAGTTTTATTTTCTCTTTAAAGAACCAATTATTTGGATGTAAGGGGTTT TCAAGGAAACAAACCATTATCTGGCCTAATTGGATCAATTTTGAAGGGGGTCTTTT TCAAGGAAACAAACCATTATCTGGCTAATTGGATCAATTTTAAAGGGGTCCTTTTT TCAAGGAAACAAACCATTATCATCCATATTAAATAAATAA	EQ ID NO: 207]

	${\tt GATGTTCCGGATTGCACCCTGGATTATGACCCCCAACATCCTGCCTCCTGTGTCAGTGTT}$					
	CGTGTGCTGCATGAAGGACAATTACCTGTTCCTGAAAGAGGTGAAGAACTTGGTGGAGAA					
	AACCAACTGCGAACTGAAAGTTTGTTTCCAGTACATGAACCGCGGTGACCGCTGGATCCA					
	GGATGAAATCGAGTTTGGCTATATTGAGGCACCCCACAAAGGCTTCCCAGTAGTGCTGGA					
5	CTCCCCTCGAGATGGAAACCTGAAGGACTTCCCCATTAAGCAACTCCTGGGCCCAGATTT					
•	CGGCTATGTGACCCGGGAGCCCCTCTTTGAGACTGTCACCAGCCTCGACTCCTTCGGGAA				•	
					-	
	TCTGGAGGTCAGTCCCCCAGTGACCGTGAATGGCAAGGAGTACCCGCTTGGCCGGATCCT					
	CATCGGAAGCAGTTTCCCCCTGTCTGGAGGCAGGAGGATGACCAAGGTGGTACGCGACTT				*	
	CCTGCAGGCCCAGCAGGTGCAGGCGCCCGTGGAACTCTACTCCGACTGGCTGACTGTAGG					
10	CCACGTCGATGAGTTTATGACTTTCATCCCCATCCCAGGCAAAAAGGAATTTCGGCTGCT		•			
	CATGGCCAGCACCTCCGCCTGCTACCAGCTCTTCCGAGAAAAGCAGAAGGCAGGC					
	GGAGGCCGTTATGTTCAAGGGCCTGGGAGGCATGAGCAGCAAGCGCATCACCATCAACAA	T.				
	GATCCTGTCCAATGAGAGCCTCACGCAGGAGAACCAGTACTTCCAGCGCTGTCTGGACTG					
	GAACCGCGACATCCTTAAGAGGGAGCTAGCGCTGACTGAGAAGGACATTATTGACCTGCC					
15	CGCGCTCTTCAAGATGGATGAAAATCACCAGGCCAGGGCTTTCTTCCCTAACATGGTGAA	•	•			
	CATGATCGTGCTAGACAAGGACCTGGGCATCCCCAAGCCTTTCGGGCCCCAGGTGGAGGA					
	GGAGTGCTGCCTGGAGACGCACGTTCGAGGCCTGCTGGAGCCCCTGGACCCTGCAC					
		• '				
	${\tt GTTCATCGATGACATCTCCGCCTACCACAAGTTCTTGGGAGAGGTTCACTGTGGCACCAA}$				٠,	
	TGTCCGCAGGAAGCCGTTCGCCTTCAAGTGGTGCACATGGTGCCCTGACTGCCTTTTCC	•		•	.*	
20	TTTTCCTCCTCCGCTGCGGTCTCTGGGTCCTTCCTGTACCCCCAAGTCTTTCCCCTACAA			•	t	
	GAAGCAGATGGGGATTGGGGGATATATGTGCCTTGCTGTCCCCTGGAGAAGGACCTCAGTG					•
	TCCACTGAAGCCCCACCCCACCCCAGTAAGCCCAGCCATCCCCACCTGAAACTAGTGG	•*				
		-			•	
	GACATGTGGTTAGTGTGCAGAGCCCTGGCCAGGGAAAGGGGGACATCAACAAATCATGTAG	•				
~ =	${\tt TCAGATTGTCCCCAGGAATTCTCAGCCTCTACTCCAGGTCAGAATGAGGGAAGGGAGAAGGGAAAGGGAAAGGGAAAGGGAAAGGGAAAGGGAAAGGGAAAGGGAAAGGGAAAGGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAA$					
25	GGAGGCTCTGAGGTCATTGGCTCTCCCAGCATCCATCTGACATTCAAGGTAGACCAGGAG				. •	
	AGGGTCCTGGAGTACCTTGGATGGTACCCTCACTTCAAGCTCACCTCCCTC					
	TGGTGGCTGCCTGCACCTGTTCATTCCTTACAGATTCCCGTACACGTTGCGTCCCT					
	ACTCCCTGAGGGTCCAATCATTCAGCACAGAATCTTCCAGAAATAGGTCTTAGCAGAGGA	• •				
30	GCGTTCTTCACTTTCTGTGGATGCAGGCTGCCCAAATTTAGGAGATAGGGGAGGTCTCAA					
30	ACTAGCATCCACGGTCTAAAATTCGGTATATGAAGATGCTCCTGCCTG					
	CTGTTCTCTCGCCTGGTCCTCAATTCTCTGGCCCAGTTCTTGGGCCCATTGCTCTTCCTAT					
	TTTGGATATTGACCTTCCTGTTCTGGACATTTGTCCCTCCAGCAGCTACACAGCCAGATC				.•	
	CAGGCCTCCCGAGAGCCTGAGAAGCAGCCTATCTCTCTCATGGATGCTGGCCCCAGTGT				•	
	CCAAGGATGCTGGCCACGTTCCAGCCTCAGTGCTCCAGCTAGCT					
35		•			•	
33	AGGAGGAATTTCCCAGCATGCTTTCCAAAGGCTCCCATCCAGATACAGGCAAATTTACCC			•	•	
	CTTGGCTTCCATTAGAAAGGTCCCCAGGAGCTGCAGAGATGGCTCAGCAATTAAAAATGC				•	
	TCCCTGCTCTTGGAGAGGACCCAAGTGCAGTTCCCAACACCTGCAACTGTCTGT	•				
	AGATCCAGAGGCTCCAGTACCCCGTTCTGGCCCCTGAGGGCACTGCACACATGTGTACAA				7.	,
	ACCCATACACATAAATACATTTGTTAGGGTCTGGAGAGATAGGACCCGGTGGTGCACAAT					
40		•		•	-	
₩0	CTGCTCTTGCAGAGTACCAGGGTTCGGTTCTCAGCACCCAGGTGGTGGCTCACAACTACC					
	TATAACTCTAGTTCCAGGGGGTCCAATGCTCTCGTCTGACCTCCATGGGCTTCTGCACAT				•	
	${\tt ACATGGTTCACATACACATACTCAAGCACATCCAAGTAAAGTAAAATAAAT$	•				-
	AAAAAATAAGAAAAATTTTAAATAAAAAGGTCCTTTAAGGCCAAGAAGATAGGAAATAT					
	TAATTCTACTTTGAAAGGTTAAACAGCTCCATTTTATAACCAAAGAAAG				*	
45	TACATTATTTTTTTTATTAAAGATTTATTTATTTTATGTATATGAGTACACTGCA	•		•	•	
-13						
	GCTGTCTTCAGACACCAGAAGAGGGCATCAGATCCCATTACAGATGGTTGTGAGCCAC				•	
	${\tt CATGTGGTTGCTGGGAATTGAACTTAGGACCTCTGGCCGAGCAGTCAATGCTCTTAACCA}$			4		
	CTGAGCCATCTCTCCAGCCCCGGACCTACATTCTTAGGGGAACAAGATTTTTACCTTGGA					
	TTATTTCCTCAGCTATGCAATCAACGGGTTGTATGCTACTGAGCAGTGGGCACAGACTTA			*		
50	GACTCCGATAACATAAGCTAACCGTAGACTCGCTTGTCCCCTGCAGACAAAGCGCACATC					
	TACGTGGCCGCACTTGCCGTGCTGGTAGGCTCTTTGGGAACACTACCCAGTATATCC	*				
	AATAAGCATACAGCTCAACAGTCACTGCCTTCGAGAGTTAGGGTCGTGTC!TCTTCTCCA					
	TCCAGTTGGGCCAACAGCCAGGCCAGGTCAGGCCTCAGAGCCTCCCAAGCTGCCATCGTC	•				
	$\tt TGTCTCTGAAGACAGTGGTCCCTTGAGGGGCAAAGCCCCAAATCCTGTCTCTGCT$					
55	$\tt CCAGAGTAGAAAACACGGGCACCTCTCTGAGGGAGCTGATGTGGAGAGGTGGGGGGCTTGT$			•		
	${\tt GGTGTTCGGTTAAAGTGACTTTACTGCTTTTATTTTATCTGGGGTGGGAGGAAGTGAGC}$					
	ACCTCCCATATGGCAGCCGCGTGGCTTTGTAGACTGCTACAATACTCCCTGGTGGCATTG					
		•				
	GTTGTCTCAGAAATTTCTGGAACTCCAGGACTCAGACACTGCCTGTCCCATCTCACTTAC					
	${\tt TCACCCAGTGTGACTCCCCCCAAGTGTGGATGCCCCCTTGCCTCCCCTGGGTGGACTCCCCCCAAGTGTGGATGCCCCCCTTGCCTCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCAAGTGTGGATGCCCCCCTTGCCTCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGGACTCCCCCTGGGTGACTCCCCCTGGGTGACTCCCCCTGGGTGACTGCACTCCCCCTGGGTGACTCCCCCCTGGGTGACTCCCCCTGGGTGACTCCCCCCTGGGTGACTCCCCCCTGGGTGACTCCCCCCTGGGTGACTCCCCCCTGGGACTGACT$	- •				
60	TTGCTCTTCCCCACCCCACTGTGTTTTGTTTTGTTTTAACTTAGGCCCAGATGCT		•			
	${\tt TCTGGGCTACACCAGTTCCTGTTTCGATGTGAGTTTTGAAATGCTCCGTGAAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGCTGAGGGGCTGAGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGCTGAGGGGGCTGAGGGGGCTGAGGGGGCTGAGGGGGGGG$					
	GGACGCAGGAAGATGGCGGGAGCCAGGCAGTACCAACTTCCTGGCGAAGAAGCCAAGAT	• •				
	GGAGACTGAGAAGTGTTTTGGGGAAGAGCCAAAATAAAGAGCAATAAAATAAGCCGTCCAC	- 0			٠,	,
				•	. •	
65	GGGAAGCTAAAAAAA ;	`.				
65	>M_1.0.0_17421 Mus musculus 18 days embryo whole body cDNA, R	IKEN full-length	ı enric	ched li	brary,	
	clone:1190004M21:hypothetical protein, full insert sequence of	r: qi-12835692/	// /cds	= (1165	.1500)	
	/gb=AK004486 /gi=12835692 /ug=Mm.22521 /len=1512 [Mouse_jongl	eur 201102.10923	3.C11	SEO TO	NO: 2091	
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70						
/ U	A KOMOON A WACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA					
	AAGTCCAATACTCAGGGTCCTGCATATTCACATCTGACGGAGTTCGCCCCACCCCCGACC			•		
	AAGTCCAATACTCAGGGTCCTGCATATTCACATCTGACGGAGTTCGCCCCACCCCCGACC CCCATGGTGGATCATCTGGTCGCTTCTAACCCTTTTGAGGATGATTTCGGAGCCCCTAAA			•	•	

 $\tt GTGGGGGGCGCAGGCCCTCCGTTCCTCGGCAGTCCGGTGCCCTTTGGAGGCTTTCGTGTA$ 

	GTGGGGGGCCAGGCCCTTCCTCGGCAGTCCCTTTGGAGGCTTTCGTGTA		
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IJ			
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	GGGAGGCCCATCCCCTTGTTCTTCTCTGCTACCTTTTGGAAGAAGTGGGTTGGCAGG		
	GATGTGGTTACAGGATCTTTTTGTACGGTTGGATTAATAAAATGACTTGAAAATCCT	<i>t</i>	
	>M 1.0.0 47422 vp40b11.rl Mus musculus cDNA, 5' end as: gi-2893320/// /clone=IMAGE:1	079133	
45	/clone_end=5' /gb=AA823452 /gi=2893320 /ug=Mm.25352 /len=219 [gnl   UG   Mm#S299539] [SE	O ID NO: 2101	
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	ATTGTTTTTGCTAGCGTTTTGGTTTTAGATTTGTGGTGCTGGGAACCCAGTGCTT		
	GTACATGGTAGCCAAGACTCCATGTTAAGCTACAAACTCAGCTCGGTTTTCTAGGTGGT		
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50	TGACCATGTTTCTGTTGAGCGGCATTCCTCCATGTCGA	Hama samiana :	
30	>H 1.0.0 48696 Homo sapiens cDNA FLJ90324 fis, clone NT2RP2001817, highly similar to	foro TD NO.	
	sirtuin type 1 (SIRT1) mRNA si: gi-22760489/// [Human_jongleur_201102.cl.6521.singl	erl [2FG ID MO:	
	211]	•	
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	AAGGAAAACAATTTTGGAAATATATCCTGGACAATTCCAGCCATCTCTCTGTCACAAATT	rt .	
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	GCTGGAACAGGTTGCGGGAATCCAAAGGATAATTCAGTGTCATGGTTCCTTTGCAACAGC		
	ATCTTGCCTGATTTGTAAATACAAAGTTGACTGTGAAGCTGTACGAGGAGATATTTTTAA		
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	AGAGATTGTGTTTTTTGGTGAAAATTTACCAGAACAGTTTCATAGAGCCATGAAGTATGA		
	CAAAGATGAAGTTGACCTCCTCATTGTTATTGGGTCTTCCCTCAAAGTAAGACCAGTAGC	**	
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	GCCTCATCTGCATTTTGATGTAGAGCTTCTTGGAGACTGTGATGTCATAATTAAT		
65	GTGTCATAGGTTAGGTGAATATGCCAAACTTTGCTGTAACCCTGTAAAGCTTTCAGA	•	
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	TTCAGTGATTGTCACACTTTTAGACCAAGCAGCTAAGAGTAATGATGATTAGATGTTC		
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5	AGAGAGAGCTGGAGCTGGATTTGGGACTGATGGAGATGATCAAGAGGCAATTAATGA		•	
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10	7			
10	AAACTCAACACTAACTTTTTTTTTTTTAAAAAAAAAAAGGTACTAAGTATCTTCAATCA	*		
	GCTGTTGGTCAAGACTAACTTTTAAAGGTTCATTTGTATGATAAATTCATATGTGTATAT			
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	AATTTTTTTTGTTTTGTCTAGTGAGTTTCAACATTITTAAAGTTTTCAAAAAGCCATCGG			
	AATGTTAAATTAATGTAAAGGGAACAGCTAATCTAGACCAAAGAATGGTATTTTCACTTT			
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1 =				
15	TTAACACAATTATTTTTAAACACTGGCATTTTCCAAAACTGTGGCAGCTAACTTTTTAAA			•
	ATCTCAAATGACATGCAGTGTGAGTAGAAGGAAGTCAACAATATGTGGGGAGAGCACTCG			
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			_	
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2.5				
25	GTTAAATACCAAACTGCTAGCCCTAGTATTATGGAGATGAACATGATGATGTAACTTGTA			
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	ATAGCAGAATAGTTAATGAATGAAACTAGTTCTTATAATTTATCTTTATTTA	•		
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20		•		
30	GAAATATAGCTGTTCTTTATGCATAAAACACCCAGCTAGGACCATTACTGCCAGAGAAAA			
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	AAATCGTATTGAATGGCCATTTCCCTACTTATAAGATGTCTCAATCTGAATTTATTT		•	
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	•			
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	CTTTTTATATTGTACATAGTCTTTTATGTAATTTACTGGCATATGTTTTGTAGACTGTTT			
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35	AATGACTGGATATCTTCCTTCAACTTTTGAAATACAAAACCAGTGTTTTTTACTTGTACA			
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	CTGTTTTAAAGTCTATTAAAATTGTCATTTGACTTTTTTCTGTT		•	
	-gil4482024 gb AT549661 1 AT549661 ye61d02 yl Beddington mous	se embryonic regio	ກ Mus ໝາສວນໄນສ	CDNA
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40	clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTCTCAGCAGTGTTACTCTGGTGCTGG	e embryonic regio	n Mus musculus	cDNA
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	Clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTCTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGGTGTTGTTTGT	oox binding 1 (NFX	1), transcript	
45	Clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTCTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGGTGCTGTGTTTGCAATCACTAGAGAAGT AGGTTCTTGTGGTTAGCAGCAGGAGGCCCCCGGCAGCAGGGTAGATCAACCAGGCGGTGA AGGTGAGGGCAAGCAGGGGAAAAGCCATAGCTTGCTTTTTCCCTGTTCCTTTTATATAGGC TGCCACCAGCGTGTGTCTCCCAGATTTAGGGTGGGTCTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGGTTTCAGTGTTTCCAGATGCCACAGTCAA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA GGGCCCTGTTTTCTGGATTTGACCATGGCAGAGTT >H_1.0.0_25623 Homo sapiens nuclear transcription factor. X-1 1, mRNA cr: gi-22212923/// [Human_jongleur_201102.12184.C2] ACGTGACCTGGTGACAGTGCTGACTTGGCTGTACACCTCGATCTAGGTTCTGCGGCACGG	oox binding 1 (NFX	1), transcript	
45	Clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGGTGTTGTTTGAAAAACGT AGGTCCTGTTTAGCAGCAGAGGAGGCCCCCGGCAGCAGCGTAGATCAACCAGAAGAGT AGGTGAGGGCAAGCAGAGGGAAAAAGCCATAGCTTGCTTTTTCCCTGTTCCTTTTATATAGGC TGCCACCAGGGTGTGTCCCAGATTTAGGGTGGGTTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGGTTTCAGTGTTTCCAGATGCCACAGTCAA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCTCTCCTGCTGGGA GGGCCCTGTTTTCTGGATTTGACCATGGCAGAGTT >H_1.0.0_25623 Homo sapiens nuclear transcription factor. X-1 1, mRNA-cr: gi-22212923// [Human_jongleur_201102.12184.C2] AGGTGACCTGGTGACAGTGCTGACTTGCGCTGTACAGCTCGATCTAGGTTCTGCGGCACGG GATGGCGGAGGCGCCCTCTGTCTCAGGTACTTTTAAATTCAATACAGATGCTGCTGAATT CATTCCTCAGGAGAAAAAAAAATTCTGGTCTAAATTGTGGGACTCAAAGGAGACTAGACTC	oox binding 1 (NFX	1), transcript	
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.50	Clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGCTGTGTTTGTAATAAGA AGTCCCGAGGGAACCCTGGAGAGGAGGCCCCCGGCAGCGAGGGTAGATGAACCAGGCGGTGA AGGTGAGGGCAAGCAGGGGAAAAAGCCATAGCTTGCTTTTTCCCTGTCCTTTTATATAGGC TGCCACCAGCGTGTGTCCCCAGATTTAGGTGGGTCTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGTTTCAGTTGCCACCTCCAGATGCCACAGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA GGGCCCTGTTTTCTGGATTTGACCATGGCAGAGTT  1, mRNA cr: gi-22212923// [Human_jongleur_201102.12184.C2] ACGTGACCTGGTGACAGTGCTGACTTGGCTGTACAGCTCGATCTAGGTTCTGCGGCACGG GATGGCGGAGGCGCCTCCTGTCTCAGGTACTTTTAAATTCAATACAGATGCTGCTGAATT CATTCCTCAGGAGAAAAAAAAATTCTGGTCTAAAATTGTGGGACTCAAAAGGAGACTAGACT TAATAGGATTGAAAATCTCTGCTGTTCACACCTCCCTGTCACCTTTTCCAGGCAGACCT TAAGAGTCACCAGACGTCTTTCCAGTCCTCCTTGTAATATAAATCGCCCCAAGAGCCAAACC TAAGAGTCACCAGACGTCTTTCCAGTCCTCCTTCTTGTAATAAAATCGCCCCAAGAGCCAAACC	oox binding 1 (NFX	1), transcript	
45	Clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGGTGTTGTTTGAACAAGT AGGTCCTGTTGTTAGCAGCAGGAGGCCCCGGCAGCAGGGTAGATCACCAGAGCGGTGTA AGGTGAGGGCAAGCAGGGGAAAAGCCATAGCTTGCTTTTTCCCTGTTCCTTTTATATAGGC TGCCACCAGCGTGTTGTCCCAGATTTAGGGTGGGTCTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGTTTCAGTAGCATGCCCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA CGGCCCTGTTTTCTGGATTTGACCATGGCAGAGTT >H_1.0.0_25623 Homo sapiens nuclear transcription factor. X-1 1, mRNA cr: gi-22212923/// [Human_jongleur_201102.12184.C2] ACGTGACCTGGTGACAGTGCTGACTTGGCTGTACAGCTCGATCTAGGTTCTGCGGCACGG GATGGCGGAGGGCGCCTCCTGTCTCAGGTACTTTTAAATTCAATACAGATGCTGCTGAATT CATTCCTCAGGAGAAAAAAAAATTCTGGTCTAAAATTGTGGGACTCAAAGAGAACTTAAAAGGATTGAGAAACTCAGCATGCTTTCCAGGCAGG	oox binding 1 (NFX	1), transcript	
.50	Clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGGTGTTGTTTGAACAAGT AGGTCCTGTTGTTAGCAGCAGGAGGCCCCGGCAGCAGGGTAGATCACCAGAGCGGTGTA AGGTGAGGGCAAGCAGGGGAAAAGCCATAGCTTGCTTTTTCCCTGTTCCTTTTATATAGGC TGCCACCAGCGTGTTGTCCCAGATTTAGGGTGGGTCTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGTTTCAGTAGCATGCCCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA CGGCCCTGTTTTCTGGATTTGACCATGGCAGAGTT >H_1.0.0_25623 Homo sapiens nuclear transcription factor. X-1 1, mRNA cr: gi-22212923/// [Human_jongleur_201102.12184.C2] ACGTGACCTGGTGACAGTGCTGACTTGGCTGTACAGCTCGATCTAGGTTCTGCGGCACGG GATGGCGGAGGGCGCCTCCTGTCTCAGGTACTTTTAAATTCAATACAGATGCTGCTGAATT CATTCCTCAGGAGAAAAAAAAATTCTGGTCTAAAATTGTGGGACTCAAAGAGAACTTAAAAGGATTGAGAAACTCAGCATGCTTTCCAGGCAGG	oox binding 1 (NFX	1), transcript	
.50	Clone IMAGE: 822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGGTGCTGTGTTTACACTAGAAAAGT AGGTCCTGTTAGCAGCAGGAGGCCCCGGCAGCAGGGTAGATCACCTAAAAAAGT AGGTCCTGGTTAGCAGCAGGAGAAAACCCATAGCTTGCTT	oox binding 1 (NFX	1), transcript	
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.50	Clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212]  GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGAGAGAGCTGCTGGATGTTCTCAGCAGTGTTACTCTGAAGAAGT AGGTCCGAGGGAACCCGGAGAGAGAGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTCCTGTTGGTTAGCAGAGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTGAGGAAGCAGGGAAAAAACCCAAAAAACCCAGAGCTTTTTCCCTGTCCTTTTATATAGGC TGCCACCAGCTGTTGTCCCAGATTTAGGTGGTTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTTGTCCCAGATTTAGGTGGTTTCCAGTTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTTGGCCTGCTGGTTTGGATAGCATAGCATGCCCCCTGCTGCTGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCAAGATTAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCAAGATTAGCCAATCACTTGAGTAGCATTCCAGTCCTGCTGCAGCACGG GATGGCGGAGGGGCCTCCTGTCTCAGGTACTTTTAAATTCAATACAGATGCTGCGGACAGG GATGGCGGAGGGGCCTCCTGTCTCAGGTACTTTTAAATTCAATACAGATGCTGCTGAATT CATTCCTCAGGAGAAAAAAATTCTGGTCTAAATTTGTGGGACTCAAAGAGGAGACTCAAGACC TAAAGAGATTAGAAAAAAATTCTGGTTCAACACCTCCCTGTCACCCTTTCCAGGCAGG	oox binding 1 (NFX	1), transcript	
.50 .55 60	Clone IMAGE: 822627 5', mRNA sequence [SEQ ID NO: 212]  GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATTGTTCAGCAGTGTTACTCTGAAGAAGT AGGTCCTGATGATTGTTAGCAGAGAGGCGCCCGGCAGCAGGGTAGATCACCAGGCGGTGA AGGTCCTGGTGTTAGCAGCAGAGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTGAGGGCAAGCAGGGAAAAACCCATAGCTTGCTTTTTCCCTGTCTTTTATATAGGC TGCCACCAGCGTGTGTCCCCAGATTTAGGGTGGTCTTCCCACCTCAAAGGATCAAAGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGGTTTCAGTTTCCAGATGCCACAGGTCAA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCTGGTTTTCTGGATTTGACCAGAGTT  1, mRNA cr: gi-22212923/// [Human_jongleur_201102.12184.C2] ACGTGACCTGGTGACAGTGCTGACTTGGCTGTACAGCTCGATCTAGGTTCTGCGGGCACGG GATGGCGGAGCGCCTCCTGTCTCCAGGTACTTTAAATTCAATACACATGCTGTGAATT CATTCCTCAGGAGAAAAAAATTCTGGTCTAAAATTGTGGGACTCAAAGGAGACTAGACT CATTCCTCAGGAGAAAAAAAATTCTGGTTCAAAATTGTGGGACTCAAAGGAGACTAGACC TAAGAGTCAGAGAAAAAAATTCTGGTTCACACCACCTCCCTGTCACCTTTCCAGGCAGG	oox binding 1 (NFX	1), transcript	
.50	Clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212]  GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGAGAGAGCTGCTGGATGTTCTCAGCAGTGTTACTCTGAAGAAGT AGGTCCGAGGGAACCCGGAGAGAGAGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTCCTGTTGGTTAGCAGAGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTGAGGAAGCAGGGAAAAAACCCAAAAAACCCAGAGCTTTTTCCCTGTCCTTTTATATAGGC TGCCACCAGCTGTTGTCCCAGATTTAGGTGGTTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTTGTCCCAGATTTAGGTGGTTTCCAGTTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTTGGCCTGCTGGTTTGGATAGCATAGCATGCCCCCTGCTGCTGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCAAGATTAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCAAGATTAGCCAATCACTTGAGTAGCATTCCAGTCCTGCTGCAGCACGG GATGGCGGAGGGGCCTCCTGTCTCAGGTACTTTTAAATTCAATACAGATGCTGCGGACAGG GATGGCGGAGGGGCCTCCTGTCTCAGGTACTTTTAAATTCAATACAGATGCTGCTGAATT CATTCCTCAGGAGAAAAAAATTCTGGTCTAAATTTGTGGGACTCAAAGAGGAGACTCAAGACC TAAAGAGATTAGAAAAAAATTCTGGTTCAACACCTCCCTGTCACCCTTTCCAGGCAGG	oox binding 1 (NFX	1), transcript	
.50 .55 60	Clone IMAGE: 822627 5', mRNA sequence [SEQ ID NO: 212]  GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGGAGATCCCGAGGGATCCCTGAGAGAGCTGCTGATCGTGGTGTTTTGAATAAGT AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGGTGTTTTTGAATAAGT AGGTCCTGGTAGCAAGCAGGAGGCCCCGGCAGCGAGGGTAGATCAACCAGGCGGTGA AGGTCCTGGTTGGTTAGCAGAGGAGGAGCCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTGAGGGCAAGCAGGGAAAAACCATAGCTTGCTTTTTCCCTGTCCTTTTATATAGGC TGCCACCAGCGTGTGTCCCCAGATTTAGGTGGTTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGGTTTCAGTTTCCCAGCTCAAAGGATCAAGGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGGTTTCAGTTTCCAGATGCCCACGCAGGTCAA AGGTGACCAGCCAGGATTAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA GGGCCCTTGTTTTCTGGATTTGACCAGGAGGTT	oox binding 1 (NFX	1), transcript	
.50 .55 60	Clone IMAGE: 822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGGTGTTGTTTTGAAGAAGT AGGTCCTGGTGATGGTTAGCAGCAGGAGGCCCCGGCAGCAGGGTAGATCACCTGAAGAAGT AGGTCCTGGTTGGTTAGCAGCAGGAGGAGGCCCCGGCAGCAGGGTAGATCACCAGGCGGTGA AGGTGAGGGCAAGCAGGGAAAAACCCATAGCTTGCTTTTTCCCTGTCTTTTATATAGGC TGCCACCAGCGTGTGTCCCCAGATTTAGGTGGGTCTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGTTTCAGTTGCCACCTCAAAGGATCAAGGA AGGTGACCAGCCAGGATAGCCAATCACTTCAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTCAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTCAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCTGGTTTTCTGGATTTGACCATGGCAGAGTT  >H_	oox binding 1 (NFX	1), transcript	
.50 .55 60	Clone IMAGE: 822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGGTGTTGTTTTGAAGAAGT AGGTCCTGGTGATGGTTAGCAGCAGGAGGCCCCGGCAGCAGGGTAGATCACCTGAAGAAGT AGGTCCTGGTTGGTTAGCAGCAGGAGGAGGCCCCGGCAGCAGGGTAGATCACCAGGCGGTGA AGGTGAGGGCAAGCAGGGAAAAACCCATAGCTTGCTTTTTCCCTGTCTTTTATATAGGC TGCCACCAGCGTGTGTCCCCAGATTTAGGTGGGTCTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGTTTCAGTTGCCACCTCAAAGGATCAAGGA AGGTGACCAGCCAGGATAGCCAATCACTTCAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTCAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTCAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCTGGTTTTCTGGATTTGACCATGGCAGAGTT  >H_	oox binding 1 (NFX	1), transcript	
.50 .55 60	Clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212]  GATCCAGTAGTTGTTCAGTTGTTCAGACTGGTGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGAGAGAGCTGCTGATTCTTCAGCAGTGTTACTCTGAAGAAGT AGGTCCCGAGGGATCCCTGAGAGAGCTGCTGGTTCTTGTTTTGAATACAGT AGGTTCTTGTTGTTAGCAGCAGAGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTCAGCAAGCAGGGAAAAACCCATAGGTTGCTTTTTCCCTGTCCTTTTATATAGGC TGCCACCAGCGTGTGTCCCAGATTTAGGGTGGTTTCCAGCTCAAAAGGATCAAGGA AAATCTCTCACAGGTTGTCCCAGATTTAGGTGGTTTCCAGATGCCACAGTCAA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATTACCATTCCAGATGCCCACAGTCAA AGGTGACCAGCCAGGATTAGCCAATCACTTGAGTAGCATAGCATTCCAGATGCCCCTCTCTGCTGGGA AGGTGACCAGCAAGAATTACACTTGAGTAGCATAGCA	oox binding 1 (NFX	1), transcript	
.50 .55 60	Clone IMAGE: 822627 5', mRNA sequence [SEQ ID NO: 212] GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATCGTGGTGTTGTTTTGAAGAAGT AGGTCCTGGTGATGGTTAGCAGCAGGAGGCCCCGGCAGCAGGGTAGATCACCTGAAGAAGT AGGTCCTGGTTGGTTAGCAGCAGGAGGAGGCCCCGGCAGCAGGGTAGATCACCAGGCGGTGA AGGTGAGGGCAAGCAGGGAAAAACCCATAGCTTGCTTTTTCCCTGTCTTTTATATAGGC TGCCACCAGCGTGTGTCCCCAGATTTAGGTGGGTCTTCCCACCTCAAAGGATCAAGGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGTTTCAGTTGCCACCTCAAAGGATCAAGGA AGGTGACCAGCCAGGATAGCCAATCACTTCAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTCAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTCAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCTGGTTTTCTGGATTTGACCATGGCAGAGTT  >H_	oox binding 1 (NFX	1), transcript	
.50 .55 60	Clone IMAGE: 822627 5', mRNA sequence [SEQ ID NO: 212]  GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGAGAGAGCTGCTGATTCTTCAGCAGTGTTACTCTGAAGAAGT AGGTCCCGAGGGAACCCTGAGAGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTCCTGTTGTTAGCAGCAGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTCAGCAAGCAAGACCAGAGGAGAGCCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTGACCAGCAAGGTTGCCCAGATTTAGGTGGTTTCCCACCTCAAAAGGATCAAAGA AAATCTCTCACAGGTTGTCCCAGATTTAGGTGGTTTCCAGTTTTCCAGATGCCACAGTCAA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATTGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCAAGATTAGCCAATCACTTGAGTAGCATTGCATGCCCTCTCTCT	oox binding 1 (NFX	1), transcript	
.50 .55 60	Clone IMAGE: 822627 5', mRNA sequence [SEQ ID NO: 212]  GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATTCTTGGAGATGTTTTCAAGAAGT AGGTCCTGAGGAGCAGCAGGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTCCTGGTTGGTTAGCAGAGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTGAGGGCAAGCAGGGGAAAAACCATAGCTTGCTTTTTCCCTGTCTTTTATATAGGC TGCCACCAGCGTGTGTCCCCAGATTTAGGGTGGTTTCCCACCTCAAAAGGATCAAAGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGGTTTCAGTTACCATGCCCTCCTGCTGGGA AGGTGACCACCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCAGGATTTGACCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCTGGTGACAGTGCTGACTTGGCAGAGTT  1, mRNA cr: gi-22212923/// [Human_jongleur_201102.12184.C2] ACGTGACCTGGTGACAGTGCTGACTTGGCTGTACAGCTCGATCTAGGTTCTGCGGGCACGG GATGGCGGAGGCGCCTCCTGTCTCCAGGTACTTTAAAATTCAATACACATGCTGCTGAATT CATTCCTCAGGAGAAAAAAATTCTGGTTAAAATTGTGGGACTCAAAGGAGACTAGACT CATTCCTCAGGAGAAAAAAATTCTGGTTCAACACCACCTCCCTGTCACACTTTCCAGGCAGG	oox binding 1 (NFX	1), transcript	
.50 .55 60	Clone IMAGE: 822627 5', mRNA sequence [SEQ ID NO: 212]  GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATTCTTGGAGATGTTTTCAAGAAGT AGGTCCTGAGGAGCAGCAGGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTCCTGGTTGGTTAGCAGAGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTGAGGGCAAGCAGGGGAAAAACCATAGCTTGCTTTTTCCCTGTCTTTTATATAGGC TGCCACCAGCGTGTGTCCCCAGATTTAGGGTGGTTTCCCACCTCAAAAGGATCAAAGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGGTTTCAGTTACCATGCCCTCCTGCTGGGA AGGTGACCACCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCAGGATTTGACCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCTGGTGACAGTGCTGACTTGGCAGAGTT  1, mRNA cr: gi-22212923/// [Human_jongleur_201102.12184.C2] ACGTGACCTGGTGACAGTGCTGACTTGGCTGTACAGCTCGATCTAGGTTCTGCGGGCACGG GATGGCGGAGGCGCCTCCTGTCTCCAGGTACTTTAAAATTCAATACACATGCTGCTGAATT CATTCCTCAGGAGAAAAAAATTCTGGTTAAAATTGTGGGACTCAAAGGAGACTAGACT CATTCCTCAGGAGAAAAAAATTCTGGTTCAACACCACCTCCCTGTCACACTTTCCAGGCAGG	oox binding 1 (NFX	1), transcript	
.50 .55 60	Clone IMAGE:822627 5', mRNA sequence [SEQ ID NO: 212]  GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGACAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATTCTGAGACTCTGGTTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATTCTGAGACTCTGGAATCCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTTCTTGTGGTTAGCAGCAGAGAGGAGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA GAGTGAGGGCAAGCAGGGGAAAAGCCATAGCTTTCCCCACCTCAAAAGGATCAAGA AGATCTCCACAGCTGTGTCCCAGATTTAGGGTGGTTTCAGTGTTTCCAGATGCCACAGTCAA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATAGCCACCACACACA	oox binding 1 (NFX	1), transcript	
.50 .55 60	Clone IMAGE: 822627 5', mRNA sequence [SEQ ID NO: 212]  GATCCAGTAGTTGTTCAGTTGTTCAGACTGGATGTTCAGCAGTGTTACTCTGGTGCTGG AGTCCCGAGGGATCCCTGGAGAGCTGCTGATTCTTGGAGATGTTTTCAAGAAGT AGGTCCTGAGGAGCAGCAGGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTCCTGGTTGGTTAGCAGAGAGGAGGCCCCGGCAGCAGGGTAGATGAACCAGGCGGTGA AGGTGAGGGCAAGCAGGGGAAAAACCATAGCTTGCTTTTTCCCTGTCTTTTATATAGGC TGCCACCAGCGTGTGTCCCCAGATTTAGGGTGGTTTCCCACCTCAAAAGGATCAAAGA AAATCTCTCACAGGTGTGCCCTGCTGGTTGGGTTTCAGTTACCATGCCCTCCTGCTGGGA AGGTGACCACCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCAGGATAGCCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCAGCAGGATTTGACCAATCACTTGAGTAGCATAGCATGCCCTCTCCTGCTGGGA AGGTGACCTGGTGACAGTGCTGACTTGGCAGAGTT  1, mRNA cr: gi-22212923/// [Human_jongleur_201102.12184.C2] ACGTGACCTGGTGACAGTGCTGACTTGGCTGTACAGCTCGATCTAGGTTCTGCGGGCACGG GATGGCGGAGGCGCCTCCTGTCTCCAGGTACTTTAAAATTCAATACACATGCTGCTGAATT CATTCCTCAGGAGAAAAAAATTCTGGTTAAAATTGTGGGACTCAAAGGAGACTAGACT CATTCCTCAGGAGAAAAAAATTCTGGTTCAACACCACCTCCCTGTCACACTTTCCAGGCAGG	oox binding 1 (NFX	1), transcript	

 ${\tt TGGTGAGGTTTGTAGAAAGAACAGCCTGGCCAGGACTGCCCACATTCCTGTAACCTTCT}$ 

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{\tt TCAGAGCCACAACCTAGACTCTGGCGGTGGGGATGGAAACGCGGAGGCCAGCTCTGAGCG}
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     {\tt TTAGCAAGACGGAAAGAAGCTGCCTTTGTGTGTCAGTTACTAAATGGTAGTGACATTCC}
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     CTCTCATCTT CCATGTGGAACGATATCCATCAATTTAATACATCTACTTTCCG
     >H_1.0.0_24040 Human cathepsin L gene, complete cds cr: gi-809235///
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     CCAGCCCCGCTGTGTCGGATACACACTCGAATCATTGAAGATCCGAGTGTGATTTGAAT
     {\tt TCTGTGATATTTCACACTGGTAAATGTTACCTCTATTTTAATTACTGCTATAAATAGGT}
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     TTACCTGTTTAAATAAAATCG
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     [Mouse_jongleur_201102.3553.C2] [SEQ ID NO: 216]
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      gi|29445|emb|V00500.1|HSBGLX Human messenger RNA for beta-globin [SEQ ID NO: 217,218,219]
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65
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     >M_1.0.0_62347 Moderately similar to F261_MOUSE 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase
     1 (6PF-2-K/Fru-2,6-P2ASE liver isozyme) [Includes: 6-phosphofructo-2-kinase; Fructose-2,6-
     bisphosphatase ] [M.musculus] as: gi-15714162/// 603360763F1 Mus musculus cDNA, 5' end
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     >H_1.0.0_25516 Homo sapiens septin 3 (SEPT3), transcript variant A, mRNA cr: gi-22035571///
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55
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      /gi=21733885 /ug=Hs.349845 /len=3602.Highly similar to KPC1_HUMAN Protein kinase C, beta-I type (PKC-beta-1) [H.sapiens] cr: gi-21733885// Homo sapiens mRNA; cDNA DKFZp761J0720 (from clone
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			•	
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	GGGGTTCAAAAGGGACAGTGGCCCATTTGGGAGACCTTTAGGATCAATGGGAATCAATTC			
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60				
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70	A TICH THE CATTA A TRACETOR CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL			
70	ATGCACTAACATAAATAGTGACTCTCCAGTTGGAAAAAAGCTGACCATTCATT			٠.
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10	CTCAGAACAAAGGAAGTTTACTGTTCATTCTCCTGATGCTTCATCTGGAACAAATTCTAA TGGGATAACTAATCCGTGTATCAGAAGTCCTTATATAGATGGCTGCTCGCCAATTAAAAA TTGGTCTCCTATGAGACTTCAGATGTATAGTGGTGGTACTCAGTATCGGACCTCAGTGAT TCAGATACCTTTTACTCTTGAGACTCAAGGTGAAGATGAGGAAGATAAAGAGAATATTCC	-•	
	TTCCACAGATGTCTCATCACCCGCCATGGATGCTGCTGGAATACACCTACGGCAGTTTAG TAATGAGGCTTCTACCCATGGTACACATTTGGTTGTGACTGCCATGTCTGTTACACAAAA TCAGTCCAGTGCTTCTGAGAAAGAATTAGCACTGTTGCAGGATGTTGAAAGGGAGAAAGA		٠.
15	CAATAACACTGTGGATATGGTTGATCCTATAGAGATAGCAGATGAGACCACTTGGATTAA GGAGCCGGTTGATAATGGCAGTTTACCCATGACTGATTTTGTAAGTGGCATTGCCTTCAG TATTGAAAACTCTCATATGTGCATGTCACCTCTTGCTGAAAGCAGTGTCATTCCTTGTGA AAGCAGTAACATTCAGATGGATAGTGGCTATAATACGCAGAATTGTGGAAGCAATATTAT	· ·	<u>:</u>
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25	CCTTTCCAGCTCAAACGTGGGTAGGGATGTGGGAGAATAAGAATGTGGGAGAACCAAGAG AAAAAGTGGGGCTGGGAGAGTTCCCGTAGGGCATAGGCCTGTGAAGTAACACTGG GGCAGATATGTATGTTATATACAACTATTTTTTTAAAAAACTTATATCCATGTTGGGAGT	••	•
35	AGATGGGTATATAACAGTTTGGAAATACTATCTTTGGAGAATGTATTTTTGTATTTATAA ATCAACTTTTTAAAAACTGTCTCATTCAAAAGGGAATAATTCATATGTACCCTTAGGAAAT	•	
	AAAGACCTGTGTTATC	/// /clone=TMAGE:620	5296
40	AAAGACCTGTGTTATC SH_1.0 0_13668 AGENCOURT_8840212 Homo sapiens cDNA 5' end cr: gi-22348912 /clone_end=5' /gb=BQ933529 /gi=22348912 /ug=Hs.391664 /len=935 [Human_jor ID NO: 224] CCACGCGTCCGCCCACGCGTCCGTGGAATTTTAAGTCATCATGACCCTTTGCTACAAATC	/// /clone=IMAGE:620 gleur_201102.5512.C2	95296 B] [SEQ
40 45	AAAGACCTGTGTTATC >H_1.0 0_13668 AGENCOURT_8840212 Homo sapiens cDNA 5' end cr: gi-22348912 /clone_end=5' /gb=BQ933529 /gi=22348912 /ug=Hs.391664 /len=935 [Human_jor ID NO: 224] CCACGCGTCCGCCCACGCGTCCGTGGAATTTTAAGTCATCATGACCCTTTGCTACAAATC AAGACTTCCCAGGGAACTGTTCCAACTGCTTTGGCATTTGAGCGCCTGGGCAGTTCTGTA TTAAGTAACAGCATACCACCTCAGTCTTCAACATACCGCTCAAGAGTCTGCACCC CATCTTTTACAACCTCAATTTAGTTTGTTGCCTTCAGCACTTGGGGGATCCCAGCAGACT	/// /clone=1MAGE:620 gleur_201102.5512.C2	95296  ] [SEQ
	AAAGACCTGTGTTATC SH_1.0 0_13668 AGENCOURT_8840212 Homo sapiens cDNA 5' end cr: gi-22348912 /clone_end=5' /gb=BQ933529 /gi=22348912 /ug=Hs.391664 /len=935 [Human_jor ID NO: 224] CCACGCGTCCGCCCACGCGTCCGTGGAATTTTAAGTCATCATGACCCTTTGCTACAAATC AAGACTTCCCAGGGAACTGTTCCAACTGCTTTGGCATTTGAGCGCCTGGGCAGTTCTGTA TTAAGTAACAGCATACCACCTCAGTCTTCAACATACCGCTCAGCATCAAGAGTCTGCACCC CATCTTTTACAACCTCCAATTTAGTTTGTTGCCTTCAGCACTTGGGGGATCCCAGCAGACT CCTCAAGCCTACAGTTCAACTCTCTTTACTAGTTCTACTGCTTCCATTGAAAGAGCTCTT CTTCGAGGAATGTAGTTATTAAACACCATCAGCGGCCTTCAGGTACCCAGTCAATTCAG GCACAACTGACTGGTTCACAGCACTCCTTTACATAGTTATCAAATTCAACTGTAGTT AATTTTCAGGAAACAACCAGGCAGTCATCTTTTATCCTGTAGCCCAATTGGAAGATTCCACT	/// /clone=IMAGE:620 gleur_201102.5512.C2	95296 1] [SEQ
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45	AAAGACCTGTGTTATC SH_1.0 0_13668 AGENCOURT_8840212 Homo sapiens cDNA 5' end cr: gi-22348912 /clone_end=5' /gb=BQ933529 /gi=22348912 /ug=Hs.391664 /len=935 [fluman_jor ID NO: 224]  CCACGCGTCCGCCCACGCGTCCGTGGAATTTTAAGTCATCATGACCCTTTGCTACAAATC AAGACTTCCCAGGGAACTGTTCCAACTGCTTTGGCATTCAAGAGTCTGCACCC CATCTTTTACAACCTCAACTTGTTTTAAGTCATCCAGTCCAAGAGTCTGCACCC CATCTTTTACAACCTCAACTTTAGTTTGTTGCTTCAGCACTTGGAAACAGCTCTT CCTCAAGCCTACAGTTCAACTCTCTTTACTAGTTCTACTGCTTCCATTGAAACAGCTCTT CTTCGAGAATGTAGTGTTAATAACACCATCAGCGGCCTTCAGGTACCCAGTCAATTCAG GCACAACTGACTGGTTCACAGCACTCCTTACATAGTTATCTATC	/// /clone=IMAGE:620 gleur_201102.5512.C2	05296 1] [SEQ
45 50 55	AAAGACCTGTGTTATC SH_1.0 0_13668 AGENCOURT_8840212 Homo sapiens cDNA 5' end cr: gi-22348912 /clone_end=5' /gb=BQ933529 /gi=22348912 /ug=Hs.391664 /len=935 [fluman_jor ID NO: 224]  CCACGCGTCCGCCCACGCGTCCGTGGAATTTTAAGTCATCATGACCCTTTGCTACAAATC AAGACTTCCCAGGGAACTGTTCCAACTGCTTTGGCATTTGAGCGCCTGGGCAGTTCTGTA  TTAAGTAACAGCATACCACCTCAGTCTTCAACATACCGCTCAGCTCAAGAGTCTGCACCC CATCTTTTACAACCTCAATTTAGTTTGTTGCCTTCAGCACTTGGGGGATCCCAGCAGACT CCTCAAGCCTACAGTTCAACTCTCTTTACTAGTTCTACTGCTTCCATTGAAAAGAGCTCTT CTTCGAGAGAATGTAGTGTTATTAAACACCATCAGCGGCCTTCAGGTACCCAGTCAATTCAG GCACAACTGACTGGTTCACAGCACTCCTTACATAGTTATCTATC	/// /clone=IMAGE:620 gleur_201102.5512.C2	05296 1] [SEQ
45	AAAGACCTGTGTTATC SH_1.0 0_13668 AGENCOURT_8840212 Homo sapiens cDNA 5' end cr: gi-22348912 /clone_end=5' /gb=BQ933529 /gi=22348912 /ug=Hs.391664 /len=935 [Human_jor ID NO: 224] CCACGCGTCCGCCCACGCGTCCGTGGAATTTTAAGTCATCATGACCCTTTGCTACAAATC AAGACTTCCCAGGGAACTGTTCCAACTGCTTTGGCATTTGAGCGCCTGGGCAGTTCTGTA TTAAGTAACAGCATACCACCTCAACTTGTTGCCTTCAGCACTTGAGAGGTCTGCACCC CATCTTTTACAACCTCAATTTAGTTTGTTGCCTTCAGCACTTGGAGAGGTCCCAGCAGACT CCTCAAGCCTACAGTTCAACTCTCTTTACTAGTTCTACTGCTTCCATTGAAAGAGCTCTT CTTCGAGAATGTAGTGTTATTAAACACCATCAGCGGCCTTCAGGTACCCAGTCAATTCAG GCACAACTGACTGGTTCACAGCACTCCTTACATAGTTATCTATC	/// /clone=IMAGE:620 gleur_201102.5512.C2	05296 E] [SEQ
45 50 55	AAAGACCTGTGTTATC SH_1.0 0_13668 AGENCOURT_8840212 Homo sapiens cDNA 5' end cr: gi-22348912 /clone_end=5' /gb=BQ933529 /gi=22348912 /ug=Hs.391664 /len=935 [Human_jor ID NO: 224] CCACGCGTCCGCCCACGCGTCCGTGGAATTTTAAGTCATCATGACCCTTTGCTACAAATC AAGACTTCCCAGGGAACTGTTCCAACTGCTTTGGCATTTGAGGGCCTGGGCAGTTCTGTA TTAAGTAACAGCATACCACCTCAGTTTTCAACATACCGCTCAGGTCAGAGGTCTGGACCC CATCTTTTACAACCTCAATTTAGTTTGTTGCCTTCAGCACTTGGGGGATCCCAGCAGACT CCTCAAGCCTACAGTTCAACTCTCTTTACTAGTTCTACTGCTTCCATTGAAAGAGCTCTT CTTCGAGAATGTAGTGTTATTAAACACCATCAGCGGCCTTCAGGTACCCAGCAGACT CCTCAAGCCTACAGTTCAACTCTCTTTACTAGTTCTACTGCTTCCATTGAAAGAGCTCTT CTTCGAGAATGTAGTGTTATTAAACACCATCAGCGGCCTTCAGGTACCCAGTCAATTCAG GCACAACTGACTGGTTCACAGCACTCCTTACATAGTTTATCTAACCAAATTCAATTGTAGTT AATTTTCAGGAAACACCAGGCAGTCATCTTTATCCTGTAGCCCAATTGAGAGATTCCACT CAGGTGAGCAAACGAACCAGCAGCACTCATCAACATAGTTATCTAACCAAAAATTAAAAAAGC TCTTACTCATCTGCGATTCCATCAACAAGAAGACCTCCAAGGACTTCAACAAAAATAAAAAGC TCTTTACAGAACAACCACCACCAACATCAACCAAAGACCCCTAAACCTCAAAGATATAATTCCT CCTGTGCAAACACTAAGCTATTCNCAACCATTAATACAGAAGTTTCTTAATATCGGGC CAAGCACAAATTTATTCACAGCAGCACTTACAAAGCCTTTAATCAGATAGTTCATCACAAA AATTACGGTTTAGTACAGCCACCATAATGTGCCATCTTATTATCATCTACACAGGGTTTATAG GGTCCAGCAAGGTTGAGAAATTAGCCACCCTTCTATTATATCATCTAATCAGCAAGAGGTAT CTCAGACTATAACTCCTGAAAATCAGACGCTTAATTATTCATCTAATCAGCAAGAGGTAT CTCAGACTATAACTCCTGAAAATAACAGCCCTTCTAATTATTCATCTAATCAGCAAGAGGTAT TGTCTTCAGTTACAAATGAGAATTACCCTGCTCAAACAAGAGATCTGTTCTCACTAACTC AGACTATACACATTAACACACCAGGTTTTTTCTTCTTCTTCTTCTCTCTC	/// /clone=IMAGE:620 gleur_201102.5512.C2	05296 E] [SEQ
45 50 55 60	AAAGACCTGTGTTATC  SH_1.0 0_13668 AGENCOURT_8840212 Homo sapiens cDNA 5' end cr: gi-22348912 /clone_end=5' /gb=BQ933529 /gi=22348912 /ug=Hs.391664 /len=935 [Human_jor ID NO: 224]  CACGCGTCCGCCCACGCGTCCGTGGAATTTTAAGTCATCATGACCCTTTGCTACAAATC AAGACTTCCCAGGGAACTGTTCCAACTGCTTTGCGATTTGAGCGCCTCAGGCAGTCTGTA TTAAGTAACAGCATACCACCTCAGTCTTCAACATACCGGCTCAGGTCAGAGGTCTGCACCC CATCTTTAACAACCTCAATTTAGTTTGTTGCCTTCAGCACTTGGGGGATCCCAGACCT CCTCAAGCCTACAGTTCAACTCTCTTTTACTAGTTCTACTGGTTCCATTGAAAGAGGCTCTT CTTCGAGAAATGTAGTGTTATTAAAACACCATCAGCGGCCTTCAGGTACCCAGTCAATTCAG GCACAACTGACTGGTTCACAGCACTCCTTTACATAGTTTATCTATC	/// /clone=IMAGE:620 gleur_201102.5512.C2	05296  ] [SEQ

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60
      >H_1.0.0_125034 Moderately similar to CLUS_HUMAN Clusterin precursor (Complement-associated protein
      SP-40,40) (Complement cytolysis inhibitor) (CLI) (NA1 and NA2) (Apolipoprotein J) (Apo-J) (TRPM-2)
      [H.sapiens] as. gi-1615586/// zm89e05.sl Homo sapiens cDNA 3' end /clone=IMAGE:545120 /clone_end=3'
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>H_1.0.0 40132 Homo sapiens golgin-245 mRNA, complete cds si: gi-1173564/// [Human jongleur 201102.cl.746.singlet] [SEQ ID NO: 238] TAATTCAGACAGTCTCAACAAAGAACAGTTGATTCAGCGGTTGCGAAGAATGGAACGAAG AGAGAAAAAAGCTACAAGGTATATTAAGTCAGAGTCAGGATAAATCACTTCGGAAAAT AGCAGAATTAAGAGAGGAGCTCCAAATGGACCAGCAGGCAAAGAAACATCTGCAAGAGGA GTTTGATGCATCTTTAGAGGAGAAAGATCAGCATATCAGTGTTCTCCAAACTCAGGTTTC TCTACTGAAACAACGATTACGAAATGGCCCGATGAATGTTGATGTACTGAAACCACTTCC TCAGCTGGAACCACAGGCTGAAGTCTTCACTAAAGAAGAGAAATCCAGAAAGTGATGGAGA GCCAGTAGTGGAAGATGGAGCTTCTGTAAAAACACTGGAAACACTCCAGCAAAGAGTGAA  ${\tt GCGTCAAGAGAACCTACTTAAGCGTTGTAAGGAAACAATTCAGTCACATAAGGAACAATG}$ TACACTATTAACTAGTGAAAAAGAAGCTCTGCAAGAACAACTGGATGAAAGACTTCAAGA ACTAGAAAAGATAAAGGACCTTCATATGGCCGAGAAGACTAAACTTATCACTCAGTTGCG TGATGCAAAGAACTTAATTGAACAGCTTGAACAAGATAAGGGAATGGTAATCGCAGAGAC 15 AAAACGTCAGATGCATGAAACCCTGGAAATGAAAGAAGAAGAAATTGCTCAACTCCGTAG AAGAGCTGCTTTTGAGGAACTTGAAAAAGCTTTAAGTACAGCCCAAAAAACAGAGGAAGC ACGGAGAAAACTGAAGGCAGAAATGGATGAACAAATAAAAACTATCGAAAAAACAAGTGA GGAGGAACGCATCAGTCTTCAACAGGAATTAAGTCGGGTGAAACAGGAGGTTGTTGATGT 20 AATGAAAAATCCTCAGAAGAACAAATTGCTAAGCTACAGAAGCTTCATGAAAAGGAGCT GGCCAGAAAAGAGCAGGAACTGACCAAGAAGCTTCAGACCCGAGAAAGGGAATTTCAGGA ACAAATGAAAGTAGCTCTTGAAAAGAGTCAATCAGAATATTTGAAGATCAGCCAAGAAAA AGAACAGCAAGAATCTTTGGCCCTAGAAGAGTTAGAGTTGCAGAAAAAAGCAATCCTCAC  ${\tt AGAAAGTGAAAATAAACTTCGGGACCTTCAGCAAGAAGCAGAGCTTACAGAACTAGAAT}$ 25 TCTTGAATTGGAAAGTTCTTTGGAAAAAAGCTTACAAGAAAACGAAAATCAGTCAAAAGA TTTGGCTGTTCATCTGGAAGCTGAAAAAAATAAGCACAATAAGGAGATTACAGTCATGGT TGAAAAACACAAGACAGAATTGGAAAGCCTTAAGCATCAGCAGGATGCCCTTTGGGCTGA AGAACTCCAAGTCTTAAAGCAACAATATCAGACTGAAATGGAAAAACTTAGGGAAAAGTG TGAACAAGAAAAAGAAACATTGTTGAAAGACAAAGAGATTATCTTCCAGGCCCACATAGA 30 AGAAATGAATGAAAAGACTTTAGAAAAGCTTGATGTGAACCAAACAGAACTAGAATCATT ATCTTCTGAACTGTCAGAAGTATTAAAAGCCCGTCACAAACTAGAAGAGGAACTTTCTGT GACTGAGAAGGCATTÃAAAGATCAAATTAATCAACTTGAGCTTCTCTTGAAGGAAAGGGA CAAGCATTTGAAAGAGCATCAGGCTCATGTAGAAAATTTAGAGGCAGATATTAAAAGGTC TGAAGGGGAACTCCAGCAGGCATCTGCTAAGCTGGACGTTTTTCAGTCTTACCAGAGTGC  ${\tt CACACATGAGCAGACAAAAGCATATGAGGAACAGTTGGCCCAATTGCAGCAGAAGTTGTT}$ GGATTTGGAAACAGAAAGAATTCTTCTTACCAAACAGGTTGCTGAAGTTGAAGCACAAAA GAAAGATGTTTGTACTGAGTTAGATGCTCACAAAATCCAGGTGCAGGACTTAATGCAGCA 40 ACTTGAAAAACAAAATAGTGAAATGGAGCAAAAAGTAAAATCTTTAACCCAAGTCTATGA GTCCAAACTTGAAGATGGTAACAAAGAACAGGAACAGACAAAGCAAATCTTGGTGGAAAA GAAATTGTCAGCCAAGGAGGACAGTATTCATATTTTGAATGAGGAATATGAAACCAAATT TAAAAACCAAGAAAAAAGATGGAAAAAGTTAAGCAGAAAGCAAAGGAGATGCAAGAAAC 45 TCTAGAGCTTAGTCAGAAAGAAÁAACAGTTTAATGCCAAAATGCTGGAAATGGCACAGGC AGAAAGTCTTACTGAGGTTCATCGACGAGAACTCAATGATGTCATATCAATCTGGGAAAA GAAACTTAATCAGCAAGCTGAAGAACTTCAGGAAATACATGAAATCCAATTACAGGAAAA AGAACAAGAGGTAGCAGAACTGAAACAAAAGATCCTCCTATTTGGGTGTGAAAAAGAAGA GATGAACAAGGAAATAACATGGCTGAAGGAAGAAGGTGTTAAGCAGGATACAACATTAAA TGAATTACAGGAACAGTTAAAGCAGAAGTCTGCCCCATGTGAATTCTCTTGCACAAGATGA AACTAAACTGAAAGCTCATCTTGAAAAGCTAGAGGTTGACTTGAATAAGTCTCTGAAGGA AAATACTTTTCTTCAAGAGCAGCTAGTTGAACTGAAGATGCTGGCAGAAGAAGATAAGCG GAAGGTTTCTGAGTTGACTAGCAAGTTGAAAACCACAGATGAAGAATTCCAGAGTTTGAA ATCTTCACATGAAAAAGTAACAAAAGCCTAGAGGACAAGAGCTTGGAATTTAAAAAAACT GTCTGAGGAACTAGCGATTCAGCTAGATATTTGCTGTAAGAAAACCGAAGCCTTATTAGA AGCTAAAACAAATGAGCTAATCAACATTAGTAGTAGTAAAACTAATGCCAITCTTTCTAG 60 CACAGTTTCTGAATTAGAAGCACAACTTAGACAGTTGACAGAGGAGCAAAATACACTAAA TATTTCTTTTCAACAGGCTACTCATCAGTTAGAAGAAAAAGAAAATCAAATTAAGAGCAT 65  ${\tt TAGCAGTCTTAGTAAACAACTAACTGATTTGAATGTTCAGCTTCAAAATAGCATCAGCCT}$ ATCCGAAAAAGAAGCAGCCATTTCATCACTAAGAAAGCAGTATGATGAAGAAAATGTGA TTCTGCTCTTGAGCAGGTAGATGACTGGTCCAATAAATTCTCAGAATGGAAGAAGAAAGC ACAGTCAAGATTTACACAGCATCAAAACACTGTTAAAGAATTGCAGATCCAGCTTGAGTT 70 TCAGCAAAATAAAAGATTTGATTGTTTAAAGGGTGAAATGGAAGACGACAAGAGCAAGAT

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      >H_1.0.0_48959 Homo sapiens deleted in lung and esophageal cancer 1 (DLEC1), transcript variant
      DLEC1-S2, mRNA si: gi-6715592/// [Human_jongleur_201102.cl.6757.singlet] [SEQ ID NO: 256]
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      \tt CGTCCCGAGCCTCAGCTGCTTCGTCTGCGCCCCTCCTCGCTGCGCACCCAAGATATCTCG
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      {\tt AGCGCAAGCTTGATCAAGGCCCGCGGCAGCGAGAATGAGCGCCACGAGGAGTTCGTGGAC}
65
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      GCTGGAGTACAGGACCTCGAGAGCCTTGTCAGGTTGCCTCCAGTGAAGAGTGTCTCCAGA
      {\tt TGGTGTATAGACAGCGAGTTGCTACGGAAACATCATTTGATCTCCCCAGAAGATTACTAC}
70
      {\tt ACCGATACAGTGCCGTTTCACTCTGCACCTAAAGGCATCTCCCTACCTGGATGTTCAAAA}
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CTGACATGGAATTTAACTCCTAAGGCCAAAGAAAGGACCAGAGAACCTCTCAAGAAAGCA AGACTTCTGCTTGCCAGAATGGAGAGTCGGAACCACTTCCTAAAAAATCCCCGTTTTTTT  $\tt CCTCCTAACACTCGATATGGAGGCAAGTCTCTTGTTTTTCCTCCAAAGAAGCCAGCACCG$  $\tt ATAGGAGATTCCAGAGTACAGAGCCAGAACAGAGTTGTGCTGATACTCCAGTGTTTCTA$ GCTAAGCCACCAATTGGGTTTTTCACAGATTATGAAATTGGTCCAGTTTATGAGATGGTA ATTGCGCTGCAGAACACCACCACGACCAGCCGCTACCTGCGAGTCCTCCCGCCTTCCACG CCATACTTCGCTCTGGGACTGGGGATGTTCCCAGGAAAAGGTGGAATGGTGGCTCCTGGA ATGACCTGCCAGTACATTGTCCAGTTTTTTCCCGACTGCCTTGGGGATTTTGATGATTTT ATTTTAGTGGAGACCCAGTCAGCCCACACACTTCTGATCCCCCTGCAGGCCCGGAGGCCG  $\verb|CCCCCGTGCTGACATTGTCACCGGTGTTGGACTGTGGTTACTGCCTCATTGGGGGAGTC|\\$  ${\tt AAGATGACCAGATTCATCTGCAAAAATGTGGGTTTCAGTGTTGGCAGGTTCTGCATTATG}$  $\verb|CCCAAAACAAGCTGGCCACCACTAAGTTTCAAGGCCATTGCAACCGTCGGCTTTGTTGAA| \\$ 15 CAACCTCCTTTTGGAATCCTGCCTTCGGTGTTTGAGCTGGCCCCGGGACATGCTATATTA GTGGAGGTCTTGTTTTCCCCAAAGAGCCTAGGAAAGGCAGAGCAGACCTTCATCATCATG TGCGACAACTGCCAGATAAAGGAGCTGGTGACCATAGGAATTGGGCAGCTCATTGCTTTG GATCTGATCTATATTTCTGGTGAAAAAAGCCAGCCAGACCTGGAGAGCTCACAGACTTA ACAGCCCAGCACTTCATACGATTTGAGCCTGAAAACCTTCGGTCCACGGCTAGGAAGCAG 20 CTGATTATTAGAAATGCTACCTGAGGGATTTTCACAGTGTGCTCCAGATGGTGCTAGAGG  ${\tt AAGTCCCAGAGCCTGTAAGTTCAGAAGCGGAGAGCCTGGGGCACTCCTACTCTGTGG}$  ${\tt ATGATGTGATTGTCCTGGAAATCGAGGTGAAAGGCTCAGTAGAACCTTTCCAGGTTCTCT}$ TAGAGCCATATGCCCTCATCATCCCAGGGGAGAACTACATTGGGATAAATGTGAAGAAGG CTTTTAAGATGTGGAACAACAGCAAGTCACCCATCAGATACCTGTGGGGGAAGATCAGCG 25 ACTGCCACATCATTGAAGTGGAGCCCGGCACAGGGGTCATAGAGCCCAGTGAGGTCGGGG ATTTTGAGTTGAACTTTACTGGGGGTGTCCCTGGCCCCACAAGCCAGGACCTGCTGTGTG AAATCGAAGACTCGCCCTCGCCAGTGGTGTTACACATTGAGGCTGTCTTTAAGGGGCCTG  $\verb|CCCTCATCATCAACGTCTCAGCCCTTCAGTTTGGTCTCCGCCTGGGGCAGAAAGCCA|\\$ CAAACTCCATCCAGATCCGGAACGTCAGCCAGCTCCCAGCCACATGGCGCATGAAGGAGA 30 GCCCAGTCTCCCTCCAGGAAAGGCCTGAGGATGTGTCTCCCTTCGACATTGAGCCTTCGA GTGGCCAGCTTCACTCTCTGGGGGAGTGCAGGGTGGACATCACCTTGGAGGCCCTGCACT GCCAGCATCTGGAGACCGTCCTGGAGCTGGAGGTGGAAAATGGTGCCTGGAGCTACCTTC CTGTGTATGCTGAGGTACAGAAGCCCCATGTGTACC1'ACAGAGCAGCCAGGTGGAGGTTA GAAATCTCTACCTGGGTGTGCCCACGAAGACAACCATCACACTTATCAATGGCACGCTCC 35 TGCCTACCCAGTTCCACTGGGGCAAGCTCCTCGGACACCAAGCAGAATTCTGCATGGTGA  ${\tt CAGTCTCCCCCAAACATGGCCTGCTGGGCCCAAGTGAGGAGTGCCAGCTCAAGTTGGAGT}$ TGAAGAAGCCACTGGTTCTAGGCATTTCTGGGAAGCCCCAGGGACTGCAAGTGGCCATTA  $\verb|CCATCTCTAAGGAGGCTCTGATTGCAGCACAGGGCCAGGCCAGCCCAAAGGAGC| \\$ 40  ${\tt TCCGCCTGGACTTTGGCTCAGCGGTGCCACTGAGGACCCGTGTGACTCGCCAGCTCATTC}$ TCACCAATCGCTCCCCAATACGGACCCGTTTCTCCCTCAAGTTTGAGTAITTCGGGAGCC CCCAAAACAGCCTGAGCAAAAAGACCAGCCTTCCCAACATGCCTCCTGCCCTGCTAAAGA CAGTGCGGATGCAAGAGCACCTGGCCAAGCGAGAGCAGCTGGATTTTATGGAGAGCATGC TATCCCACGGGAAAGGAGCTGCTTTCTTCCCTCACTTTTCCCAGGGCATGCTGGGGCCCT 45 ACCAGCAGCTGTGCATTGACATCACAGGCTGTGCCAACATGTGGGGCGAGTACTGGGACA ACCTCATCTGCACGGTGGGAGACCTGCTGCCGGAAGTCATCCCAGTGCACATGGCAGCGG TGGGCTGCCCCATCAGCTCCCTGAGGACCACCTCCTACACTATTGACCAGGCCCAGAAGG AACCAGCCATGAGGTTCGGCACCCAGGTCTCCGGAGGAGACACAGTTACCCGAACCCTTC GCCTGAATAACTCCAGCCCTGTGACATCCGCCTGGATTGGGAGACCTATGTTCCAGAAG ACAAGGAAGACCGGCTGGTGGAGCTGCTGGTGTTTTATGGGCCACCTTTCCCGCTGCGGG 50  $\verb|CCCCAGGCCCCTCCAGTTCATCGGAATTCAGCCATGAAACTGACTCATCAGTTGAGGGCA|$ GCTCCAGTGCCAGCAATAGGGTGGCACAGAAGCTCATCTCAGTCATCCTGCAGGCACATG 55 GGGGCAGCAGTACCATCTACATCTCCTTCACCCCTATGGTGCTCAGCCCTGAGATCCTGC ACAAGGTGGAGTGTACTGGCTACGCCCTGGGTTTCATGAGCTTGGACAGCAAGGTGGAAA GGGAGATTCCACGGAAGAGGCATCGCCTGCAGGACTTTGCGGTGGGACCCCTGAAACTGG  ${\tt ACCTGCATAGCTACGTGAGGCCTGCACAGCTAAGTGTGGAGCTGGACTACGGCGGCAGTA}$ TGGAATTCCAGTGCCAGGCCAGTGACCTCATTCCCGAGCAGCCCTGCTCTGGGGTGCTGA 60 GTGAGCTGGTGACCACCACCACCTGAAGCTGACCAACACTACAGAGATCCCACACTACT TCCGGCTTATGGTCTCCAGGCCCTTCTCCGTTTCTCAAGATGGGGCGAGCCAGGACCACA GAGCTCCT'GGCCCTGGCCAGAAGCAGGAGTGTGAGGAGGAGACAGCCTCAGCGGACAAGC AGCTGGTGCTCCAAGCACAGGAGAACATGCTGGTGAACGTGTCCTTCTCACTCTCCCTGG AGCTGCTCTCCTATCAGAAGCTCCCAGCTGACCAGACACTGCCTGGGGTGGACATTCAGC 65  ${\tt AGAGTGCGAGTGGAGAGAGAGAGATGGTGTTTACTCAGAACCTGCTCCTGGAGTACACCA}$ ACCAGACCACTCAGGTGGTGCCCCTGCGGGCTGTGGTGGCCGTGCCTGAGCTGCAGCTCT  $\tt CCACCAGCTGGGTGGACTTTGGGACCTGCTTTGTGAGCCAGCGAGGTCEGGGAGGTCT$ ACCTGATGAACCTGAGCGGGTGCCGAAGCTACTGGACTATGCTGATGGGCCAGCAGGAGC CAGCCAAGGCCGCTGTGGCCT1CAGGGTCTCCCCAAACAGTGGGCTGCTAGAAGCACGAT 70  $\verb|CCGCCAATGCACCCCCAACCTCCATCGCGTTGCAGGTTTTCTTCACTGCCAGGAGTAGTG|\\$ AGCTGTACGAGTCCACGATGGTGGTGGAAGGTGTGCTCGGTGAGAAGTCCTGCACCCTGC

GATTCATGCAGGAAGAGCTTGCTGAGTTCGAAGATGAGTTAGACCACACTGTGGACAGC

 $\verb|CCGCCCCAGCCCTCAGCCCCAGGCCCCAGCTGGAGAAAAAACATTGCCCAGGGATTAGGA|$ GCAGCTCTTCAGCACAAAGACACAGACTTGGGGACCTGGGGACCTCTGGGCAGCTCCTGG  ${\tt AATGGAAGAACCCCCTTCCACAATGGTCTCAGCCTAGGCCCTCATGATTTGTCCTCAGAG}$ CTAACATAAAGGACAGGCCACACCACAGCAGAGACCACCACATTGAGATCACTACTCAGT GCATAGCGAAGACCAGTATGGCAAAATTAGTCTTGGAAAAAAACCACAGCCACTAAGTAA ATTCATGCACTTTTACTATGCA >H_1.0.0_25680 Human mast cell chymase gene, complete cds cr: gi-180541/// [Human | ongleur 201102.12216.C2] [SEQ ID NO: 257] TCCCAGTTAATACATAATCAATATGCAATTTATTAATACATCTCCCATGTCCACTCCCC 10  $\tt CTGTATCTTGCCATTCTTGACCTGCATTTCCATCCTTACCTTCCCTAGAGGCCAACT$ CATTTTCTTTGAAAAACCTGGCATTTCCCAGAAAAAAAGTGAAGGGCTGGGAGCTGTCC GTTGTCCTGATTTGCTCCCTCTGCCCTTGCTTCCAAATGTGGTTGGAAAGAAGCACTATT GAAAAATCCCTAAACGCACCCCTGCAGGGTTGGCTCTACCCTGTAGCCATGGACACATGC TGTTGATACCACCTGCCTCATGAGTCTCACATAATTTGCCCTTTCACACTATCTACCCCA 15 TCAGCCTTACCAAAACCATACCTGCATCCTGGGCAGCATCTGCCCTTCAAGAGACTAAGG AATCTCCTTGCAACCAAGAATGACTAGACCAATGAGACACCCTTTAAGGCCCCAGCACAA TATAGAAATCCCACAATATGGTAATCCCAGTAAGGAGCTATCAAGCCATTGCAGGACCAT CTAGAATACAACTAGAGTATAGTTCCTTTCAATCCAGGAACTATACTCTAACAGCTTGGC TCACAGGAACCAGAAGTGAAGATGATGAGGATCAGGGCTGAGCCTGTGAGCACCAGCTCC 20 ACCACTGACACCAACCACAGATTAAACAAGCATCTTGTGGACCCCTGGGATGGAAAGAAT AGTTGTTGCCTTATCAACCTCCCCCACAGCCCACACAGAAAAGATAAAATCATCATGGCT ATAATGGGAGCAGTAGCATCTCAGAGACTACAGCAGAAACCATCCACATAAAGAGCTTTG CCCAAACTTATGATAAAGGGCACCCTCAGAGACTCTCCCTACTTTAATATTAGCCCATTG 25 CAGAAATGGTGAGTGGAAAGAGAAATCTTAGGAAGAACCCCTTAAAAAAAGCAAAATGCTT CTCCTGCCCCAACACTGGGATAATCTCCAAGGATCTCTCCATATCTCATTCTCCTGGATA CACTGTCCACTCAGAAATATTGTGCAGAGTGCAGTAATTCAAAAGTGAGCTATTGTGTTA  $\tt GGAGTGAAGGCAAGAGTATCGTAAAATAAATCAAATTTGAAATGAATTCTCTTAAATTGC$ 30 TTTATAGATGTTTAATGTAAGCCAGCAGCTATTAAACGATAAACCTTAAATTCGAGAAAA  ${\tt ACTTGGTCATTCAGAAACTATAGAAACAGGCAGGACTTATTGCGAGGGCAAACACAGAGT}$ CACTGCACTACTGCTCAGTATGAGCCCATGCCATCAGCTGTCCCTGACCCACAGGAGTTC TTTAGAAGAGACTGGTCAACAAAAGTTTCTAGGGTGTTTTATACCTGCCAACTCGAGGGT 35 TAAAACAAGTTGCATAGAAATGCTCAATCAAGAAAGACACAGTCATTACTCAGAGAATAA TAAACAGCCTGGCAGCACATGAATGAATAGAAAAAAGATGTTACATGCAAAGCATGAAAT AACCAAATTCCATAACAGATGTTAATCTGTAATGTGTTTAGGAGAATTTAGAGGAAGTAT 40 TCAAGTGGTGATATGGCAGCACAAGGTAAAACACAAAGGAATAAAACCAACGTTTATTAA GAACCAATCATGTGGCATTTCACATTGAGCATCATATTTAATTCTGAAAAAAATCCTTGT ACTGTATCATTCTTCATATTTTATGGATGCAGTAACTAAGGCTGAGAACTTTAAAATTTT TCCTAAGTTCAGACACATAGCTAAGTGGCAGAACCAAGATTCAAACTCACCCCATCTAAC  ${\tt TGCAGAGCAAACTGCATGCCTTAAATGTCAAAGTGAATACTAGCACAGTTAATACAATGT}$ TTGGAAACTCAGAGAAGGAATGATCCCTCTGCATTATAGTTACTAAGGAATCATTGCCAT 45 TATTTAAATGCCAGTGCTTCTACATCAGGCCCAAATTTTCTGTCCTACTAACTGTGAATC AAGACTTGATTCAACCTCTACTTGAGTATCTGCCGCAATGAGAAATCACTTACCTCCACT CAGCTGCTTCCCAAGATGCTGTAGGATTATGTCTAGAGTCAAACTAGCCAGAAGCAATGT CCAAAATACACCATAACACTGTGCAGCAAAGGTCCTACTACCACTTGTTTGGCCCAAACA 50 TTCTAGGCAGCACTGGATATCTGAATCATCAATTATTTCCACAAACACTGACCCCTCTAC CAGTCACCTCACTAGAAGAATTAATTCCACATGATAATAGCTCCCTCATGTTACTCCCT TCTAAGTCAAATTGTACACCCCTTTATCTGATTAACAGAGTCTAAGTCACATGACCTAAA TGCAAGAGAACTGGGAATGGACGTTTGTGGATTCTACCTTAGTAAGGCAAAGTTATCATT GGGAATTCCTCTAATACAGGAAGGGTGTTCCAGAGACATTAAGGAGCCATATAAATGGAA 55 TTAAAGTTTCCAAGAACAAAAATTATCCCACTGAACATAATCTTTACTATCTTTATATA AAGGAAAATTAGACTTGACTCAGCAGAACTGAAATAACCCAGCTCTAACAGTTACTGCTT TTAACTTCAAGTACTGTGTCTCTAGGTGATACCTGCTCCAACAATAGTTTGGTCACA'TTT TCAATTTGATATTCTCTAGTCTCCCAACTTGATAACTGTACCCTAAACCATAAAGTTCAC 60 TACCAACATGCTATATATAAAATAACCAAAGGGGGAAGAAGAAAAAGAGAAAAAGGAAAATCT CTTAAAATACACAGGTATACATATGACAAAGCAAAGAAGGAAATGTGAGCAGATAGTGCA GTCCTCGTTTCTGAAATTGGTCCCCTGACTGGGGCTATACCTATTCCATTTCCTCACCCT CAGCCAGGCAGGTGGAGCAAAAACTTAAGTCTTGGTGGATCTGAATCTTGATGCTGTGGA GCTGTCTTACTAGCCCCAGACTACCTGCCTCTCAATTTCTAATTATATCAGTGAAAGCAA 65 ACAGCTTTGATTTGTTTAAGCCTCTGATTTTTTGGTCTAACTGATGTAAGACCACAAGGA  ${\tt CAAGAGTTCTCCAGCTCCGGATTCTCTTCTGTTCATGGTGAAATGCCCGAGAGAA}$ GAGTTGCCAACTTTGGCAAATAAAAAATACAGGATTCCAGTTAAATTCAAATTTAGATAA ACAACAATTTTTTAGTATTAGTGTGTCCCATTCAATATTTGGACATACTTAACTAAAAAA TGATTTGTTGTTCATCTGAAATACAAATTTAACTGGGCATTCTGAATATTCTCTGGCAAC 70 CCCCGAGAGAGTGAAGAAGTGGTACAAGGACACTTAAGAAGACCAGATTTGAAAAGACA

AAATTAAGTTAAAAGCAGACACAGAGACCTGGCCAATATATACTAAGGAGTGGATCACTC TGGTCACAAGCCCAACCTGAGACCAAGGGCATAGTGAGATGATTTGGGAAAGGCACTTAT ACACTACTCATCCCCGTCTTTGAACTAAATGCCTTATAAATCTCCAAGAGAAAATGACAGT CCACCATGTGGACTGCTTTCTGTAAGTCCAGGGAAAATAAAAGCTATGTGCTTGAAACCC ACTTCTGATATTATAAGGTGTGTGATCTTTGTCATGTTAATGGGTCTGAGTATCAATTCT ACAATTGTAAAGTGACAGTAATGGTGTGTCCCCAGGTTGTTGTGGAAAGCTIGATTCTTA ATGCAACAGTAGGAAACCCCAGCCTCTCTGGAGCAAACACCCTTCTACATCTTTACTTCC CTTGATTTGATATCAGGAAAATCTATTTCTGAACCATAAGCTATGATAGCTGATTTAAAA 10 AATTGACTATCATGACATGATAATGATCATAATGGTAATACATATTGATAGGGTTGCCGT GAAAGTAATAATATCTAAGAGTTGTGACAATATATGATACGCCTAGACTCTCAGAAAA TGCTAATTCCAATCCCAATTGCTCTTTGCATAAAGTTCTGTCCTAGGGTCTGTTCTTTTC CCACATCTACCCTCCTTGGATCTCTCTTCTGTCTTTTTCATGTGGTTCAGAGGAGGAGAG AGATCCAGGTCAATGTTTTTCAAATTACAAGGAATTATCATTTAAATGGGGAAGAAGCTC 15 AAGTTTTGACGTGTAGTGGAATTGGAGTGGAGTGGAATGGAAACTAACAGGAAGA CACTGCACATGGTTAAGATAAAGATTGTTTCCTGAAACCTTTAATTTGTGCTTACATACT CACACATACATATGTGCATGCACTGGGACTCTGCAATATGCATTTCTGACTATGGAACAT AGCCATAAAAGTCTTTGCACTGAACGTTCAGTGGGCCTTTCACAAGCTGCCCTAATT3GG AAAGAAAAACATGGTCCCTCCATTTCCTGCCCCCAACTCCAGAAAAGTCACCATAGGTTG 20  ${\tt AGGGTACATCTGAGAAGCCAGCACTTGGGAGTTCAGGGGCTCAAGTTCCTTTCTAGAAAAA}$ CACTGGGTGATTCTAGGGGAACTTCCGATCAGAAACAGCCAATTCAGAGTGAGAGAACAA AACGTGACCATGCAGTTCCTGTGGTTACCAGCCTTGCCCCTCTCTTGCCTTCTGGGAGTT ATAAAACCCAAGACTGGAAAGGAAAACCAGCATTTGCTCAGGCAGCCTCTCTGGGAAGAT GCTGCTTCTTCCTCTCCCCCTGCTGCTCTTTCTCTTGTGCTCCAGAGCTGAAGCTGGTGA 25 GTATCAGGGTTCTTCCCTCTGAAATCTGCTGCAGTATCAGCTCCTGAAACAAAGATGTTT AGTCTGAAAATAGCTGACTCCTAAACAGGGTTCCAAGATCTCTCTTCAAGAGTCCCACAG TACAGCCTAGGACAGCCCCCAGGAACAAGGAATTTCACCTCAATTGTAGAAAAGCCCAGA GCAAGTGGAAGGAAAAGGGGTATCCCCAGGAAAACAGACATGTCCTCTTAATCTTCTGAG 30 GAGAAATCTAAAACAGGAACCTGGACAGTGGGTCCTACACAGAGACAGAGGAGAGTGGGC  ${\tt CAGGGCAAGGTGGGA\underline{G}TGGGAGAAGTCTGAGATGAAAACATCAGAATGGAGCAGAGGCAA}$ GAATGAGATTTCACCTGGGAGGTTATGGGTGGGGAAAGATACGAAATACAGGAGACAGGA GAGGGAAGATGGGCGGAACACAGGGTGAGAATGAGATTCCAGGGAAGTCCTAGCTCAGCT 35 TTAACCCAATTTGTCCATTCATTGGAGAGAGTATCTATGGCCGTGTTCAAACCCTGGGGT GCTCTGTTCCAGGGGAGATCATCGGGGGCACAGAATGCAAGCCACATTCCCGCCCCTACA TGGCCTACCTGGAAATTGTAACTTCCAACGGTCCCTCAAAATTTTGTGGTGGTTTCCTTA TAAGACGGAACTTTGTGCTGACGGCTGCTCATTGTGCAGGAAGGTGAGACAACAGGGTCT ATTTATCTCCAAATGGGAGATGAACAACCAGAGTAGCATCCAGGAATACACCTGCACTGG 40 GGACTGAAGAGGGGGTCCTGGGTCTTGTCAACTTTCAGGAGAGGGAACGNAGACTTTGGG  $\tt CTGAAAGACTTTAGTCTGTGTTTGAATAGTTCCTTGAGCCTCAGTCACTGTGAGCTAAGC$ TCCCTTCGGAGGAAAAGGAGGTCCTGTCCGAAGGTCCCTCTTGTTGCAGTAGCACCCCTC ACTTCCTCTATGGCCTTTTCAAGAACACTGGCCTCTAGTTCTCAGGGTCCTGAACCCATC 45 ATTTTATGGGAGGCAGAGAACAGGTCTACATAAGACCCCCACTTTCCCGTTTTAACTGAT ATCTCCTGCTTCAGGGGCTGGCCCTCATGCAGGGTTCCCTGAATTAGGAAGTGTGAACCC  $\tt TGTCCCTGAGTCCTCCCTGGCCTGTTCAGTCCCCAGCAATTCCAGGGGTCGTAGAAATT$ GTGTCTGTTTCCTGAGAAAGCTCTTTCATGAGTTAAGCCTGAGCCCTCAAATGCCACAAG 50 TGGCCCATGAAAAGGGAGATGGGTAGAGTCCGGCGACCCAGTGACAGAGTTTAGTCCTCT TTTCTCAGAATGAGCTCACCTCAGAAGAAACCCCAAGCCATCACTGTCGCCTCCTTTTCC TTCCTTCTTCCTCACAACAGGTCTATAACAGTCACCCTTGGAGCCCATAACATAACAGAG GAAGAAGACACATGGCAGAAGCITGAGGTTATAAAGCAATTCCGTCATCCAAAATATAAC ACTTCTACTCTTCACCACGATATCATGTTACTAAAGG IGACAACACCTCTCTTCTCCCTT TCCACTTCCCATTCTCCTAAGCTTCTCCTTCAGGTCCTCATTGCCCTGAATTTTTCTTAA 55 AGAGCCCATTTCGAGGACTGACAGTCCTTCATTCCCTTCACAGTTGAAGGAGAAAGCCAG CCTGACCCTGGCTGTGGGGACACTCCCCTTCCCATCACAATTCAACTTTGTCCCACCTGG GAGAATGTGCCGGGTGGCTGGCTGGGGAAGAACAGGTGTGTTGAAGCCGGGCTCAGACAC TCTGCAAGAGGTGAAGCTGAGACTCATGGATCCCCAGGCCTGCAGCCACTTCAGAGACTT 60 TGACCACAATCTTCAGCTGTGTGTGGGCAATCCCAGGAAGACAAAATCTGCATTTAAGGT GATCCTCCAACTAGGTTTCCTCTCCAAAACTCACTGTTCAGGGACCAGAATGCTCTTAGA ACGNAGGAGATGGGGTCAGAAGGTTGTCAGTCAGGTGACAGGGTGAGCATCACAGGAATT GCATGGGGTGACTGTGGAGAATGTGAATGACGGTCCCAAGAAAGGAAGAAGGGGGCATCAG 65 AACTAGATGTATAAGTGAGGAGCTCCACCTCCTGGGTCTGACTTTAGGTCTUACTGTGAC CTCCCCTACAGGGAGACTCTGGGGGCCCTCTTCTGTGTGCTGGGGTGGCCCAGGGCATC GTATCCTATGGACGGTCGGATGCAAAGCCCCCTGCTGTCTTCACCCGAATCTCCCATTAC 70 AGGGAAGCTGGAACTGGACCTGAGCAGCAAAGTGTG'IGCAACTCATTCTGG'TTCTACCCT

 $\tt TGGTTCCCTCAGCCACACCCTAAGCCTCCAAGAAGTATCCTACAGGTAACAGAACTCTC$ 

	TGGTTCCCTCAGCCACAACCCTAAGCCTCCAAGAAGTATCCTACAGGTAACAGAACTCTC		
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	>H_1.0.0_9733 Homo sapiens hypothetical protein MGC2628 (MGC2628),	mRNA cr: qi-13129063///	
5	[Human jongleur 201102.3501.C1] [SEO ID NO: 258]	3	
•′			
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	TCCAATGCACCTGTGCACATCGATGTGGGCAGCCACATGTACACCAGCAGCCTGGCCACG		1
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22	ATGGGCCCCACCATGAAGGGGCCCATCTGTCAGCAGCGTCTTCTAGGTCCCCAGCTCAGG	•	
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	AGTGAGGACTGGCCCTGAGGAGTCCTTGCAGACCTGCTGCCTGC		:
			•
<b>CO</b>	AGATGGACCCCCCTGGCCTTGTGACAGCTCCCCAAGTGTTCTCCGGTGGAGAAACTGCA		
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			•
	TTCTCTCTCACTATTCTTTGGTTGGGGATGATGTCCTCTTTAGACCCCCACGTAATGGTA		•
_	TGAGAAGGTGGCAGGCAGTCGCTCAGCCAGCGAGGCGCACCAAGTCATGCAGCCAGC		•
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50 GTAAGCCGGTGGCAGTCCCAGAAGAGCAGCCTGTTGCAGAATCTGGACTATTAGCGAGGG AGCCTGAAGAAATAAAIGCAGATGATGAGATAGAGGATACATGTGACCACAAAGAGGGATG ACCTGGGAGCTGTAGAAGAACAACGTAGTGTCATCCTACATCTCTTGTCACAGCTTAAGC TGGGCATGGATTTAACAAGAGTGGTGCTTCCTACATTTATCCTAGAGAAGCGTTCCTTGC TGGAAATGTATGCAGACTTTATGTCTCATCCAGACCTATTTATAGCCATCACTAATGGAG 55  $\tt CCACAGCTGAGGACAGAATGATTCGCTTTGTTGAGTACTACCTTACCTCATTTCATGAAG$ GCCGTAAGGGAGCCATTGCTAAAAAACCATACAATCCTATCATTGGAGAAACATTTCACT GTTCCTGGAAGATGCCAAAAAGCGAGGTAGCATCCAG'IGTTTTTAGCAGTTCTTCCACCC AGGGAGTCACAAATCATGCTCCTTTATCGGGGGAGTCTTTGACCCAGGTGGGATCAGACT GTTACACAGTCAGATTTGTTGCTGAGCAGGTTTCTCATCATCCTCCAGTCTCAGGATTTT 60 ATGCAGAATGTACAGAGAGGAAGATGTGTGTAAATGCGCATGTCTGGACTAAGAGCAAGT TCTTAGGCATGTCAATAGGCGTGACAATGGTTGGAGAAGGTATCCTTAGTCTGTTGGAGC ATGGAGAAGAGTACACATTTTCTCTACCCTGTGCATATGCTCGGTCAATTTTGACTGTTC GCATCACTTTTCATACCAAGCCATTTTATGGTGGCAAACTGCATCGGGTTACAGCTGAAG 65 TAAAGCACAACATCACCAACACTGTGGTATGCAGAGTGCAAGGGGAATGGAATAGTGTTC TTGAGTTCACATATAGCAATGGAGAGACAAAGTATGTGGACTTGACTAAATTGGCAGTGA CGAAGAAAAGAGTGAGACCTCTGGAGAAGCAGGATCCATTTGAATCCAGGCGATTGTGGA AAAATGTGACAGACTCGCTGAGAGAATCTGAAATTGATAAGGCCACAGAGCATAAGCA FA CCCTGGAAGAACGTCAGAGGACTGAAGAAAGGCATCGTACTGAAACAGGCACACCTTGGA 70 AAACCAAATATTTTATTAAAGAGGGAGATGGCTGGGTTTATCATAAACCACTTTGGAAAA

TAATTCCAACAACACAACCAGCAGAGTGACACATACTATCTAAAACTCGACCAAATGAGG TTCTTCTCTGTTTACCCTAAATCCTCCCAGAATGGAGTCATTGCACTGAGTGACCTGCTT CCTGATTGCGCAGACTGAAACTAGCTAAACCTGAATGTACCTACTAGGGCACCATAATAC TGCAGCAAGACCAAAGTGGTAAAGAAACACAGTGGACCTTTTACCAACCTGTTCATGTGA TGTGAGCAATACCATCTTAAAACTTGTTACCTGAATCAGTAGATGAATCTTTTATCCAGT TCTTGCTCCTAAAGTTAAGTTTGAATCCCCTATTTTTGCACAGGGGCAGCAGATACACAC AACAATGAGAACTCAGTGACTTTGATTTCTTTGTAGTGAAAAGTGAAGTCTCCGTTTCAG GAGGAGGAGAAAGATGACCCAGAAGTGGATTCAGCCATTGTGCCTGAAATCAGTGTTTAA AAAAAAAATCAACCAGGTTGTGGTAACAAGGCATTCTATTTCTTCAAAAAGACTGTATG 10 CCTGTGTCTGAGGAACTTACCTATTATCCACCTCTGTTGGAACTCTCTTTTAAAAAGTAC ATTTATAGATTGATCAGAATTATAACCATGGAGAATTTTTTCTTCTGAGCATTTTAATAT ACTTGAAAACAACATTGACTTGAAAAATTTCAGAACATTTTTCAGTACCTAGTTTTATTA AATATTACACTTGAGAGACACTTTTTAAAAATGTGTTAATGTCAATATGATGAGATTTTA GCCTTTCTCCAGAACTAAGGCATTAAAGAAAATAGCAAATATTAAAAAATAAAACTGTTA 15 CTTTTTTCCTTCTTTTCACCTTTAGGTTAATATCCAGTATTATGTGTTATCCCTTT TGTCAGTAATTCAAAACTTATATGTGTAACTGAACGCGCATGTAAGGTATGGTTTTATTT  ${\tt ATTTTTTTTTTTTGAGGAAATTTAAATGCTAAAGAAACAACGAAATGAAAAGGTATCA}$ GGAAAAAAAGATCAGGAAGTTGTATTCAGGTACAAATCTTTTTTTAAATAAGTATTTTGT 20 TGAGGTTGAAGAATTGCTGGCAATTAAAAGAATAGAGCTAATTATGGCTTTCATCATTCA TTCATGTATTTATTGAGCACCTACTTATTATGGTGCTCAACACTTGTTACTGCAAGCTAC CTTAATTTCCCAAGAGTGGTGCCTTACTCTGTTTTTTCTGATATGGTCTTCEAATCAGTG TGTGTAACATACCTGTTGTTTATCAGCCATTGTAGGTGGCTGTGTCTGTTGCATCATCAT AAGAAGTTTAAGCTTTGTGCTCTGATAAATTGTGTTCTGTTAAAGAGGTTAGTAGGATGA 25 AAACAGCAAAACAATAATTTTTTCAACAAATTGTAAATTATAAGAAAAAGAGTTGGTTTG TGTACAACAATTTTAATGATTCCCTTGTTCATTTTTGCTGTGAAATGCACTGAAAAAAT CCTCAAAATGAGTTATAGTTCCTGTGTTGGGAAAATTGACAAATAATAAAACTAGAGAAC  ${\tt CAATTTAGCGCTTCCCGGGGCCGGGATCTAACCTTAAGGCGCCCCCCTTTTTCCTGGTCC}$ 30  ${\tt CAACCGTTCCCCTATATAAGGAGGCCTCAAATTTTATGCGCTTGGGGACAGTGGCCCCTC}$ TTCTAATATCGAACGG >H_1.0.0_24979 Homo sapiens pogo transposable element with ZNF domain (POGZ), transcript variant 1, mRNA cr: gi-22027468/// [Human_jongleur_201102.11858.C1] [SEQ ID NO: 265] GGAGCATGGCGGACCCGACCTGTTCATGGAATGTGAGGAGGAGGAGTTGGAGCCATGGC 35 AGAAAATCAGTGATGTCATTGAGGACTCTGTAGTTGAAGATTATAATTCAGTGGATAAAA CTACCACAGCTGGCAATCCTTTGGTCCAGCAAGGTGGACAGCCACTCATCCTGACCCAGA TGCAGAATGCCAATCATGTGACTAGTTCCCCTGTGGCCTCACAACCAATATTTATCACTA CGCAGGCATTTCCTGTAAGGAATGTCCGGCCTGTACAAAATGCAATGAATCAGGTTGGGA 40 TTGTGCTGAACGTACAGCAAGGCCAAACGGTTAGACCAATTACACTAGTTCUAGCCCCAG GTACCCAGTTTGTTAAGCCGACAGTTGGAGTTCCACAAGTGTTCTCCCAGATGACCCCTG TGAGGCCAGGCTCCACAATGCCTGTGAGGCCCACCACCACCACCCTTCACCACCGTCATCC  ${\tt CGGCCACTCTTACCATTCGAAGCACCGTCCCACAGTCCCAGTCCCAGCAGACCAAGTCCA}$  $\tt CTCCCAGCACTTCTACCACTCCCACTGCCACACCACAGCCAACCTCACTGGGGCAACTAGCTG$ 45  $\tt CTCCACCTGCAGTGAGCATTGCCAGCTTTGTCACTGTGAAGCGACCTGGTGTTACAGGCG$ AAAATAGCAATGAAGTGGCCAAATTGGTGAATACCCTTAACACCATCCCTTCCCTGGGCC A GAGTCCTGGGCCAGTGGTGGTGTCCAACAACAGCTCTGCTCATGGCTCTCAAAGAACCAGCGGACCTGAGTCTTCAATGAAAGTGACCTCTTCCATCCCAGTATTTGACCTCCAGGAIG 50 GTCACATGTGTTACTGTTGCCCAGAAATGGTTGAATACCAGAAGAAAGGAAAGTCCCTGG ATTCAGAACCCAGTGTCCCATCAGCAGCAAAGCCCCCATCCCCTGAGAAAACAGCTCCTG TTGCTTCCACACCCTCTTCTACACCTATTCCTGCTCTGTCACCGCCTACCAAAGTACCAG AACCAAATGAGAACGTGGGCGATGCCGTCCAGACCAAACTCATTATGCTTGTAGATGACT 55 ATATGAAACACCACGTAGAACTCGATCAGCAGAACGGTGAGGTAGATGGTCACACTATCT GCCAGCACTGTTACCGCCAGTTTTCCACTCCCTTCCAGCTTCAGTGCCACTTGGAAAATG TTCATAGTCCCTATGAATCTACTACCAAGTGCAAGATCTGTGAATGGGCGTTTGAAAGTG AGCCACTATTTCTCCAGCATATGAAGGATACTCATAAGCCTGGAGAGATGCCTTATGTTT GCCAGGTGTGTCAATATCGCTCCTCACTCTACTCTGAGGTAGATGTCCATTTTCGGATGA TCCATGAGGATACCCGGCATCTGCTCTGCCCTTATTGCCTGAAGGTCTTCAAAAATGGCA ATGCATTCCAACAGCATTACATGAGGCACCAGAAGAGAAATGTTTATCACTGCAACAAAT GCCGGCTGCAGTTTCTCTTTGCCAAGGACAAAATTGAACACAAGCTTCAACACCATAAAA CCTTCCGTAAACCCAAGCAGCTGGAGGGCTTGAAACCAGGCACCAAGGTGACAATCCGGG  $\tt CTTCCCGAGGCCAGCCACGAACTGTTCCTGTATCCTCTAATGATACACCTCCCAGCGCCT$ CTGTCCAGCGCAGCATCCAGAAGAGAGCTGTTAGGAAAATGAGTGTCATGGGCCGGCAGA 70  ${\tt ACTGCTCTGTGTCGCTATAGCACCTGCTGTTCTCGAGCTTATGCCAACCACATGATCA}$ 

ACAATCATGTTCCACGGAAGAGCCCCAAGTATTTGGCTTTGTTTAAAAATTCTGTGAGTG GAATCAAGCTGGCCTGCACTTCATGTACCTTTGTTACCTCTGTGGGCGATGCTATGGCCA AGCATTTGGTATTCAACCCCTCTCACAGATCCAGCAGCATCCTGCCACGGGGACTCACTT GGATAGCTCACTCAAGGCATGGCCAGACTCGTGACCGAGTGCATGACCGGAACGTGAAGA ATATGTACCCTCCTCCTTCCTTCCCCACTAACAAAGCTGCCACTGTGAAATCTGCGGGGG 5  $\tt CCACCCCAGCTGAGCCTGAAGAGCTACTAACTCCCTTAGCCCCAGCACTCCCATCACCAG$ CCTCAACTGCAACCCCACCACCAACCCCCACTCACCCGCAGGCTTTAGCCCTTCCACCGC  ${\tt TGGCTACAGAGGGAGCCGAATGTCTGAATGTTGATGATCAGGATGAAGGGAGCCCAGTCA}$  ${\tt CCCAAGAACCTGAGCTAGCATCAGGTGGTGGTGGTGGTGGAGTTGGCAAAAAGGAGC}$ AGCTGTCTGTGAAGAAGCTTCGAGTAGTACTGTTTGCTCTATGCTGCAATACAGAACAGG 10 CAGCTGAACACTTCCGAAATCCCCAGCGACGTATTCGCCGTTGGCTTCGACGTTTCCAGG CCTCCCAGGGGGAGAATCTAGAGGGCAAATATCTGAGCTTTGAGGCAGAAGAGAAACTGG  $\tt CTGAGTGGGTGCTAACCCAGCGGGAACAACAGCTACCTGTAAATGAGGAGACCTTGTTCC$ AGAAGGCCACCAAAATAGGACGTTCTTTGGAAGGGGGGTTTAAGATCTCCTATGAGTGGG CTGTGCGTTTCATGCTGCGGCACCACCTGACTCCCCATGCCCGGCGAGCTGTGGCCCACA 15 CCCTACCTAAGGATGTAGCAGAGAATGCAGGACTCTTCATTGATTTTGTACAACGGCAGA  ${\tt TTCACAACCAGGACTTACCCTTGTCTATGATTGTGGCTATTGATGAGATCTCTTTGTTCC}$  $\tt TGGATACAGAGGTGCTGAGCAGTGATGATCGAAAGGAGAATGCCCTGCAGACAGTGGGCA$ CAGGGGAACCTTGGTGTGATGTAGTCCTAGCCATTCTGGCAGATGGCACTGTCCTTCCCA  $\tt CCCTGGTTTTCTACAGAGGGCAGATGGATCAGCCTGCTAACATGCCAGACTCCATATTGC$ 20 TAGAGGCAAAGGAGAGTGGCTACAGTGATGACGAGATCATGGAGCTGTGGTCAACTCGAG TGTGGCAGAAGCACACAGCTTGCCAGCGCAGCAAAGGCATGCTTGTGATGGACTGTCATC GCACTCACTTGTCAGAAGAGGTACTGGCTATGCTTAGTGCCTCTAGCACTTTGCCTGCAG TGGTCCCAGCAGGCTGTAGCTCCAAAATTCAGCCATTAGATGTATGCATCAAAAGAACTG  ${\tt TCAAGAACTTCCTGCATAAAAAATGGAAGGAACAGGCTCGGGAAATGGCAGATACTGCAT$ 25  ${\tt TTGGGGACTGTCCAGAGCTAGTTCAGCGCTCCTTCCTGGTGGCTAGTGTTCTGCCTGGCCCTGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCCTGGGCCTGGGCCTGGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCGCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCCTGGCTGGCCTGGCGCTGGCTGGCTGGCGCTGGCTGGCGCTGGCTGGCTGGCTGGCCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTG$ CCGATGGCAACATTAACTCACCTACAAGAAATGCTGACATGCAGGAGGAGCTAATTGCCT CCCTAGAGGAGCAACTGAAGCTGAGTGGGGAACATTCTGAGTCTTCCACTCCACGACCCA GATCATCTCCTGAAGAGACAATTGAGCCTGAAAGTCTTCACCAGCTCTTTGAGGGTGAAA 30 CTTAGGGAAAAGGGGGCATACCAGGTGGGGTATTTGGTTTCTATTTTTAATTTTATACC 35 CCAATAGTAATCACGTCTGAGCCAAGGAGCTGGCCCATTGGTCATTCACTTCTGCTAAAA A CAGGTTTTTGTGACTTTTTTTTTTTTAAATTTAAATCACTGTGTTTGGTATTTTTCTGTGTCTTTGGGCATGATGCTATCTAATCATTGTTAATGTGAGAACATTTCTGAAGATGGGA 40 ATTGTGGTCTTAACACTTTTATATAAAAATGAAAATGGAAAAAAAGTCCCACTGAACTCT  $\tt CTCTTCCTTCTCTTTCTTTCCTTCCCTCTCCAGAGATGTTGGTTTCTACAGCAACCCT$ GATTTGTCTTTTCCTCACCACCTTCCCTCCAAAACATGACATAAACAATATTTTTTGCAC 45 ATACAGGTGTTATTAGCAAGCAAGAGATACTGAAGCGATCAAACAGTTTTAGGGTGGAAG  $\tt CTTCATCCTGTTAGATGGAGAGCATGCCTGTTTAAGGGATTACTGGTCCTACAGCCAGGA$ GCTAATTGTTCAAGAAGTGTTGAACTTTAAAAAGACAAGACCACTTGTTGAAATCCAGCG GCACAGGGGTGTGCACAAAGAAAATGACATGAATCTTTATTTTTCACTGCCAGCTTCAAG TGTAAACCAAAACGTACTGTACCGTACAGAGAAAAAGGAGCAAAAAACCAAGTCTTCTGTT TATCCTGAGGCTTTCCACAATGTTCCCCTCCTGTGAGCCAAGGAGGCAAACTGCACAAGC TTGTAAATGGTTCGTCTTTAAAATGTACATAAGTGGAACATTTAATAAAATGAGGGGAAA 55 TGGATTTATAAACTTGTTTTTTTTCTAGGTGACCCTGTTTAATAGGCTTTC%CAGACTGG GGAATGCTCAAGATGTGATGGGCCTGGTGGTACAGGTGTGACATTTGTTACCACCCATTT CTCCCACCCCACCCTGCTTTTTGTTTGTTTTTTTTTCATCCCCCAGCACACTATAATA TAGTGAACTGGAAAAGTCCCTTCCAGAAACAGCTTGGCCAGCTTTGTGAACCTTTGACAT CTGAAAACAACCAAGGATCCATCTGGGCTTCTCTCCCCAGCTTTTTGCCTGATGCCATT 60 TTATTGACAGACAATGGACTTTGAAGTCAGCCTTTGCCTTTGAGAAAGTTCAAGAACTAT GGTTGGTCACGTCTATCTACAACCTAATCCTACTCTTTGGTAGTCTCTGCAGCAGCCACA GCCTTAGCAGAGCTGGGGTTCCTGTCTTCTGCACACGATTGACTTTCTTGATGGGTAATT  ${\tt TTTTTTAAGA::} {\tt TATACCAACAGTGGATCAGCTGGGTTTTGGCCAGGAAGTTGTCTTTGTG}$ 65 TTCAGTTTAATCAATAAACATGTATTTATTGACTGTT >gi|16398196|gb|AV378849.2|AV378849 AV378849 RIKEN full-length enriched, adult male cecum Mus musculus cDNA clone 9130604J16 3', mRNA sequence [SEQ ID NO: 266] 70 CCTTGTAAGCAGCTGAGCTCTAAGTACAAGACAGCCAATCAAGTGACCTGGAAACAATCC

CAAAGGGAATCTTTGTTCTCAAAAGAAACCAAAACCCACACACTATATTCAGCTATGATT TTGTTTTCTCTAAAGTCTTATTGTCCTGTGCGGTTATTTTTGTTGTTTTTTCCATACTCA GATATTTACTTAAGACAACTTTTGGGAGTCAGTTCTCAAACCATGTAGGTCTCAGGAATC CAACTCCAGTCACTGGAATTGAGTTTTACCCGAGCCATCTTGCTCGCCCATTTTAAACCC TAAGCTGCCTTTGGACTATTTTTCCACTAGTATGAAGGGTATATACCTGTTAGTAACACC TGTTGATCTATGTCATAAACATTGTTTACTTGATCTTTCGCAAAGTGTTGGGTAGGAAAC GACTCCTTAATTTGTTATTGGACAGAATCCCCTTCTTAGTAAAACTGTAAGAAATATTTT CATTAAAAAGGACATTGAGT >H_1.0.0_4005 Homo sapiens serine/threonine kinase 12 (STK12), mRNA cr: gi-4759177/// 10 [Human_jongleur_201102.967.C1] [SEQ ID NO: 267] GGCACGAGGCAGATTCAGTTGTTTGCGGGCGGCCGGGAGAGTAGCAGTGCCTTGGACCCC AGCTCTCCCCCCTTTCTCTCTAAGGATGGCCCAGAAGGAGAACTCCTACCCCTGGCCC TACGGCCGACAGACGGCTCCATCTGGCCTGAGCACCCTGCCCCAGCGAGTCCTCCGGAAA GAGCCTGTCACCCCATCTGCACTTGTCCTCATGAGCCGCTCCAATGTCCAGCCCACAGCT 15 TTCACAATTGATGACTTTGAGATTGGGCGTCCTCTGGGCAAAGGCAAGTTTGGAAACGTG TACTTGGCTCGGGAGAAGAAAAGCCATTTCATCGTGGCGCTCAAGGTCCTCTTCAAGTCC CAGATAGAGAAGGAGGGCGTGGAGCATCAGCTGCGCAGAGAGATCGAAATCCAGGCCCAC CTGCACCATCCCAACATCCTGCGTCTCTACAACTATTTTTATGACCGGAGGAGGATCTAC 20 TTGATTCTAGAGTATGCCCCCCGCGGGGAGCTCTACAAGGAGCTGCAGAAGAGCTGCACA TTTGACGAGCAGCGAACAGCCACGATCATGGAGGAGTTGGCAGATGCTCTAATGTACTGC CATGGGAAGAAGGTGATTCACAGAGACATAAAGCCAGAAAATCTGCTCTTAGGGCTCAAG ACAATGTGTGGCACCCTGGACTACCTGCCCCCAGAGATGATTGAGGGGCGCATGCACAAT 25 GAGAAGGTGGATCTGTGGTGCATTGGAGTGCTTTGCTATGAGCTGCTGGTGGGGAACCCA CCCTTTGAGAGTGCATCACACAACGAGACCTATCGCCGCATCGTCAAGGTGGACCTAAAG TTCCCCGCTTCTGTGCCCACGGGAGCCCAGGACCTCATCTCCAAACTGCTCAGGCATAAC  $\tt CCCTCGGAACGGCTGCCCCTGGCCCAGGTCTCAGCCCACCCTTGGGTCCGGGCCAACTCT$  $\tt CGGAGGGTGCTGCCTCTGCCCTTCAATCTGTCGCCTGATGGTCCCTGTCATTCACT$ 30  ${\tt CGGGTGCGTGTGTTTGTATGTCTGTATGTATAGGGGAAAGAAGGGATCCCTAACTGTT}$  $\verb|CCCTTATCTGTTTTCTACCTCCTCCTTTGTTTAATAAAGGCTGAAGCTTTTTGTACTCAT|\\$ >H_1.0.0_22673 Homo sapiens, Similar to like-glycosyltransferase, clone MGC:33333 IMAGE:4821103, mRNA, complete cds cr: gi-22713409/// [Human_jongleur_2011.02.10561.C2] [SEQ ID NO. 268] 35 AGCGGGCGAGCGCAGGCCCAGCCCGGGAGCCGCTGGAGCAGGGCCTGCGATGGAGCCTG CAGCCCCGGGTCGCGTCCCTCCCTGAGCGCCCCCGTCGGCGGCCATGCTGCCCCGAGGGC GATGCTTCCCCGGCCCGCTCATGCCACGTGTCCCCCCAGACGGGAGGCTGCGGAGAGCCG 40 CGCAGCCGCCGCCCCAAGTGCGAGCTCTTGCATGTGGCCATCGTGTGTGCGGGGC ATAACTCCAGCCGAGACGTCATCACCCTGGTGAAGTCCATGCTCTTCTACAGGAAAAATC CACTGCACCTCCACTTGGTGACTGACGCCGTGGCCAGAAACATCCTGGAGACGCTCTTCC ACACATGGATGGTGCCTGTCCGTGTCAGCTTTTATCATGCCGACCAGCTCAAGCCCC 45 AGGTCTCCTGGATCCCCAACAAGCACTACTCCGGCCTCTATGGGCTAATGAAGCTGGTGC TGCCCAGTGCCTTGCCTGAGCTGGCCCGCGTCATTGTCCTGGACACGGATGTCACCT TCGCCTCTGACATCTCGGAGCTCTGGGCCCTCTTTGCTCACTTTTCTGACACGCAGGCGA  ${\tt TCGGTCTTGTGGAGAACCAGAGTGACTGGTACCTGGGCAACCTCTGGAAGAACCACAGGC}$  $\tt CCTGGCCTGCCTTGGGCCGGGGATTTAACACAGGTGTGATCCTGCTGCGGCTGGACCGGC$ 50  ${\tt TCCGGCAGGCTGGCAGCAGATGTGGAGGCTGACAGCCAGGCGGGAGCTCCTTAGCC}$ TGCCTGCCACCTCACTGGCTGACCAGGACATCTTCAACGCTGTGATCAAGGAGCACCCGG GGCTAGTGCAGCGTCTGCCTTGTGTCTCGGAATGTGCAGCTGTCAGATCACACACTGGCCG  ${\tt TTCGGGTGAAGAACAAGCATGTGGAATTCTTCCGCAATTTCTACCTGACCTTCCTGGAGT$ 55 CTGAGCAGTTGCAGCAGGCCCTGGCACAACTGGACGAJGAAGACCCCTGCT'TTGAGTTCC GGCAGCAGCAGCTCACTGTGCACCGTGTGCATGTCACTTTCCTGCCCCATGAACCGCCAC CCCCCGGCC'1'CACGATGTCACCCTTGTGGCCCAGCTGTCCATGGACCGGCTGCAGATGT TGGAAGCCCTGTGCAGGCACTGGCCTGGCCCCATGAGCCTGGCCTTGTACCTGACAGACG 60 ACGTGGCCTACCATGTGGTGTACCGTGAGGGGCCCCTATACCCCGTCAACCAGCTTCGCA ACGTGGCCTTGGCCCAGGCCCTCACGCCTTACGTCTTCCTCAGTGACATTGACTTCCTGC CTGCCTATTCTCTCTACGACTACCTCAGGGCCTCCAT'FGAGCAGCTGGGGCTGGGCAGCC GGCGCAAGGCAGCACTGGTGGTGCCGGCATTTGAGACCCTGCGCTACCGCTTCAGCTTCC 65 CCCATTCCAAGGTGGAGCTGTTGGGCTTGCTGGATGCGGGCACTCTCTACACCTTCAGGT ACCACGAGTGGCCCCGAGGCCACGCACCACAGACTATGCCCGCTGGCGGAGGCTCAGG  $\tt CCCCGTACCGTGTGCAATGGGCGGCCAACTATGAACCCTACGTGGTGCCACGAGACT$ GTCCCCGCTATGATCCTCGCTTTGTGGGCTTCGGCTGGAACAAAGTGGCCCACATTGTGG 70  $\tt CCCACGCTCCAAGCCTGGACATCTCCCGCTTCCGCTCCAGCCCCACCTATCGTGACTGCC$ 

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TCCAGGCCCTCAAGGACGAATTCCACCAGGACTTGTCCCGCCACCATGGGGCTGCTGCCC
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    GCGCTGCCCCTCATCTTAGCATTGGGCAGACACCAGGGCAACCTGCCCTCCGCCATCCCT
    GCTATTTAAATTATTTAAGGTCTCTGGGAAGGGCTGGGGCAGAGCATCTGTGGGGTGGGG
    GGGCTGGTTCCCCCATCTTGAATTGTTTATCCCTTTTTCATAATTAAAGTTTTAAAACAT
    >H_1.0.0_20190 Homo sapiens hypothetical protein CL25022 (CL25022), mRNA cr: gi-7661547///
    [Human_jongleur_201102.9081.C1] [SEQ ID NO: 269]
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    {\tt AGCCAGACTGGTTTCCTATCTCCCAGGATTTTGCTCTTTAGTTAAAAGGGTTGTCAATCC}
    CAAAGCCTTTTCGACTGCAGGATCATCAGGTTCGGATGAGTCTCATGTGGCTGCTGCACC
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15
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25
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CGTCATTTGTTGAATTATCTCTAGA >H_1.0.0_6694 Homo sapiens mRNA for period (Drosophila) homolog 3 hPER3, complete cds cr: gi-131609247/// [Human_jongleur_201102.2143.C5] [SEQ ID NO: 275] NAGCAGGCCGGAGTCCTGAAAGTCGAGCGAGCTCCGGGTTTTGAAAATGTTGGAGGGAAA AGCTCCTCGGAGATGAGCGTGACCCCCTGGCTCGTGGTGGCCGCCTGTTCTCACTAACGC CAGGCTGCGGGCCGTCCCAGCACGACGTGGAGCCCCGCGGAGACCTCGAGATGCCCCGCG GGGAAGCTCCTGGCCCCGGGAGACGGGGGGCTAAGGACGAGGCCCTGGGCGAAGAATCGG GGGAGCGGTGGAGCCCCGAGTTCCATCTGCAGAGGAAATTGGCGGACAGCAGCACAGTG AACAGCAAGATCGAAACAGAGTTTCTGAAGAACTTATCATGGTTGTCCAAGAAATGAAAA 10 AATACTTCCCCTCGGAGAGACGCAATAAACCAAGCACTCTAGATGCCCTCAACTATGCTC GAGCACCTCAGGCAGATGTGAGCATGTACAGTCTTGAGGAGCTGGCCACTATCGCTTCAG  $\tt CTTCTCACTTTGTTGACCTGCTTGCACCTCAAGACATGAGGGTATTCTACGCGCACACTG$  ${\tt CCAGAGCTCAGCTTCCTTTCTGGAACAACTGGACCCAAAGAGCAGCTGCACGGTATGAAT}$ GTGCTCCGGTGAAACCTTTTTTCTGCAGGATCCGTGGAGGTGAAGACAGAAAGCAAGAGA AGTGTCACTCCCCATTCCGGATCATCCCCTATCTGATTCATGTACATCACCCTGCCCAGC CAGAATTGGAATCGGAACCTTGCTGTCTCACTGTGGTTGAAAAGATTCACTCTGGTTATG 20  ${\tt ACCAAAAAGTTTTGAAGTATGCAGGGCATCCTCCCTTTGAACATTCTCCCATTCGATTTT}$  ${\tt GTACTCAAAACGGAGACTACATCATACTGGATTCCAGTTGGTCCAGCTTTGTGAATCCCT}$ 25 GGAGCCGGAAGATTTCTTTCATCATTGGTCGGCATAAAGTTCGAACGAGCCCACTAAATG AGGATGTTTTTGCTACCAAAATTAAAAAGATGAACGATAATGACAAAGACATAACAGAAT TACAAGAACAAATTTACAAACTTCTCTTACAGCCAGTTCACGTGAGCGTGTCCAGCGGCT ACUGGAGCCTGGGGAGCAGCGGGTCGCAGGAGCAGCTTGTCAGCATCGCCTCCTCCAGTG AGGCCAGCGGGCACCGTGTGGAGGAGACGAAGGCGGAGCAGATGACCTTGCAGCAGGTCT 30  ${\tt ATGCCAGTGTGAACAAAATTAAAAATCTGGGTCAGCAGCTCTACATTGAGTCAATGACCA}$ AATCATCATTCAAGCCAGTGACGGGGACACGCACAGAACCGAATGGTGGTGAGTCAG CGAATGGTGGTGGAATGTAAGACCTTTACTTCCTTCCACCAAACACTGAAAAAACAATA GTGTGTACACTGAGCCCTGTGAGGATTTGAGGAACGATGAGCACAGCCCATCCTATCAAC AGATCAACTGTATCGACAGTGTCATCAGATACCTGAAGAGCTACAACATTCCAGCTTTGA 35 AAAGAAAGTGTATCTCCTGTACAAATACAACTTCTTCCTCCTCAGAAGAAGACAAACAGA ACCACAAGGCAGATGATGTCCAAGCCTTACAAGCTGGTTTGCAAATCCCAGCCATACCTA AATCAGAAATGCCAACAAATGGACGGTCCATAGACACAGGAGGAGGAGCTCCACAGATCC  ${\tt TGTCCACGGCGATGCTGAGCTTGGGGTCGGGCATAACCCAATGCGGTTACAGCAGCACCA}$ TTGTCCATGTCCCACCCCCAGAGACAGCCAGGGATGCTACCCTCTTCTGTGAGCCCTGGA CGGCTGTTCTGTCAGCGCACACCCAGAAGGAAGAGCAGAATTATGTTGATAAATTCCGAG AAAAGATCCTGTCATCACCCTACAGCTCCTATCTTCAGCAAGAAAGCAGGAGCAAAGCTA AAGGGAAGCACAAGCGGAAGAAGCTGCCGGAGCCGCCAGACAGCAGCAGCTCGAACACCG GCTCTGGTCCCCGCAGGGGAGCGCATCAGAACGCACAGCCCTGCTGCCCCTCCGCGGCCT CTTACCTCGTCCCAGCTTTTCCCCTCCCAGCCGCGACCTCACCCGGAAGAGAATACGCAG  $\tt CCCCCGGAACTGCACCGGAAGGCCTGCATGGGCCGCCCTTGTCCGAGGGCTTGCAGCCTT$ 50 CTGTCTGTCCTCTGTTGTCGCCATCGTTTTTGCCATGICCATTCCTGGGGGGGGACAGCCT CTTCTGCGATATCACCCTCAATGTCGTCAGCAATGAGTCCAACTCTGGAC::CACCCCCTT  ${\tt CAGTCACCAGCCAAAGGAGAGAGGAGGAAAAGTGGGAGGCACAAAGCGAGGGGCACCCGT}$ GACCCTCTGAATCTCCAGATCGGATGAGAAGGAACACGTGCCCACAAACTGACTATCAGT GTGTTACAGGCAACAATGGCAGTGAGAGCAGTCCTGCTACTACCGGTGCACTGTCCACGG GGTCACCTCCCAGGGAGAATCCATCCCATCCTACTGCCAGCGCTCTGTCCACAGGATCGC CTCCCATGAAGAATCCATCCCATCCTACTGCCAGCGCTCTGTCCACGGGATCCCCTCCCA TGAAGAATCCATCCCATCCTACTGCCAGCACACTGTCCATGGGATTGCCTCCCAGCAGGA CTCCATCCCATCCTACTGCCACTGTTCTGTCCACGGGGTCACCTCCCAGCGAATCCCCAT  ${\tt CCAGAACTGGTTCAGCAGCATCAGGAAGCAGCAGCAGCAGTATATACCTTACTAGTAGTG}$ CATTTCCTAATGTCGCCGAAGAGCCCATCTGGAGAATGATACGGCAGACACCTGAGCGCA TTCTCATGACATACCAGGTACCTGAGAGGGTTAAAGAAGTTGTACTAAAAGAAGACCTGG AAAAGCTAGAAAGTATGAGGCAGCAGCAGCCCCAGTTTTCTCATGGGCAAAAGGAGGAGC 65 TGGCTAAGGTGTATAATTGGATTCAAAGCCAGACTGTCACTCAAGAAATCGACATTCAAG  ${\tt CCTGTGTCACTTGTGAAAATGAAGATTCAGCTGATGGTGCGGCCACATCCTGTGGTCAGG}$  ${\tt TTCTGGTAGAGACAGCTGTTGAGTGACTGTGAGGATGAACCTTCATACCCTTTCCAAGA}$  ${\tt CGTGTTACACAGACCAGACCTTTTTAAGTCCTGGACTTTTAAATGACCATGAAGTTATCAT}$  ${\tt TGAATGTTAAGATTTTTTCTTCTTGATTTTTTAATACACGTAATCTTTTTGAAGCAGACA}$ TTGTATACAGAATCTTACTTCTCTTTGTTCCTGATATATTAAAATGGCCAGITAGGCTCT

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30
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     \texttt{GCAAATCCAACAGA}\underline{CT} \texttt{GGGCAGGAGCAATTGGCCCCATTTTCTCAGGGTCTGTGGCTGCA}
     GAGCAGCCTCCACCTGCTTCATTTTCCCCGGGTCAGGGAGGACCAGC
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35
      /clone_end=3' /gb=AW172886 /gi=6438834 /ug=Hs.277923 /len=250 [gnl|UG|Hs#S1666742] [SEQ ID NO: 281]
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      40
      NNNNNNNNN
      >H_1.0.0_56284 Homo sapiens LOC219701 (LOC219701), mRNA si: gi-20545460///
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45
      CCATTGGCTGGAGCCTCCTGGGAGGGTTCAAACCATCAGCTCTATGAGAAATGCCCAGAA
      {\tt TTCTCCTGAGGGTGCAGGGGATCCTTCTCATCTCCTGGACCCTCCAGGGCACTCTGGTCC}
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      TTTATGAAATAAATTATATTTCCTAGTCTAAT
      >H_1.0.0_1.4841 Homo sapiens HSPC150 protein similar to ubiquitin-conjugating enzyme (HSPC150), mRNA
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      {\tt GGGACTTGTCCTGGTTCATCTTAGTTAATGTGTTCTTTGCCAAGGTGATCTAAGTTGCCT}
      70
```

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	>gi 24800794 gb CA436374.1 CA436374 UI-H-DF1-aug-m-18-0-UI.s1	NCI_CGAP_DF1	Homo	sapiens	cdna	clone
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J	TTGCTTGAGAATTAGATCTTTGCTTTAGGGATTTAAACAGAAAGAA			•		
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	ACAGCACGATGATGCTGTGTGGGAGGCCTTAGAAGCAGTTGTGGCAGAAATAACTGGAGAC	•				
10	TTGATTTCGCCCATGTGGGCTAAGTGGCTTGCTTTGAGAAGGGACAAATAAAAATGAGGTG					
10						_
	-gil24814117 gb CA449697.1 CA449697 UI-H-EII-ayy-i-09-0-UI.sl	NCI_CGAP_EI1	Homo	sapiens	CDNA	clone
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13	GATTTACAACAGTTGAGGGTTTTTGCTATTTTCAAGTTTTATAGAAAGTGTGTGT					
	TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC					
	DND D D CODD CODD AGA GAAACCCCCAGGGA CATTTTG CATGTTAAAATCATCCCACCGG	-				
	A A TOCTTTOTTA COCTOTTTTAATTTTTTTACTTTGTTAGATGTAAAAATAACGAAAAA					
20	ATTCTTTCAAGAAACAGAAACCACAATATATAATACATCAATTTGGCAGCTGCCCCTGTA					٠.
20	TA TTTTTCA A A A AGTCATTTTCTCTCTCTACATGTACAAATTATTTTAATACTTGAAGTTT					
	TACGCTCAGACTTACAGAATAGAAAATTTTCTGGAGCACAAAAGTTGACTTGAGGGGAAG					
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25	SH 1 0 0 22746 Homo saniens hypothetical protein DKFZp762I194	(DKFZp762I19	4), π	RNA cr:	gı-	
	22748822/// [Human jongleur 201102.10630.Cl] [SEQ ID NO: 286	]				
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	CCAAATGAAACAAGACCTGGAGAAGTCCTTATTGATTGTTTAGATTCCATTGAAGACAC			•		
30	CA A GGA A T A T GGAGATAGAGGTAGACTCTTGGTAACAAATTTAAGAATTCTCTGGCA					
	CTCTTTCCCCATTATCAACACTCAATGTTTCTGTCGGTTACAATTGCATATTGAATATTAC					
	D D C D D G G D C T G C T D A C T C T A A C T C T A A C T C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C T A C					
	ATCTAACACTACTCCTTTTGAATTTATATTTACAAATTTGGTTCCTGGAAGCCCTAGACT					
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35	TA A TTA AGA AGTGCACTAATTCAGAACAAGCAACTAAGACTGTTGCCACAAGAACATGT	•				
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	TTTTATTACCAATGTGAGAATTGTGTGGCATGCAAATATGAATGA					
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50	TGCACGCCCGGCTGCAAATTCGCCCAGCCGATGGGGACGTCGCGGCCCAGTGGGTGG					
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	CTAAAATIGGCCGAAGCTGGCAGTGCCTGCGATTACAGGCGCGCGCCCCACACCT	ı •				
	GACTGGTTTTCGTATTTTTTGGTGGAGACGGGGTTTCGCTGTGTTGGCCGGGCTGGTCT					
55	CCAGCTCCTAACCGCGAGTGATCCGCCAGCCTCGGCCTCCCGAGGTGCCGGGATTGCAGACCGGAGTCTCACTTAGTGCTCAATGGTGCCCAGGCTGGACTGCAGTGGCGTGATCTCTCACTGGTGCCTCAATGGTGCCCAGGCTGGACTGCAGTGGCGTGATCTCTCACTGGTGCCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAG	· ·				
	CGGAGTCTGGTTCACTTAGTGCTCAATGTGCCCAGGCTGCATGTGCCAAGTGCCAAGAGTCCCAAGAGTCCCAAGAGTCCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCCAAGAGTGCAAGAGTGCAAGAGTGCAAGAGTGCAAGAGTGCAAGAGTGCAAGAGTGCAAGAGTGAAGAGTGCAAGAGTGAAGAGTGAAGAGTGAAGAGAGAG	1				
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65	GGGAAGTGAGGAGCGTCTCCGCCCGGCAGCCACCCAGTCCGGGAGGGA					•
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7.0	CCCGCCCGGCTAGCCGCCCGTCCGGGAGGCGAGGGGGCCTCTGCCCGGCTGCCCCT					
70	CTGGGAAGTGAGGAGCCCCTCTGCCCGGCCAGCCGCCCGTCCAGGAGGGAG	<u>-</u>				
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	GCCCGGCCAGCCCCCTCCGGGAGGTTAGGGGCGCCTCTGCCCGGCCGCCCCTACTGG GAAGTGAGGAGCCCCTCTGCCCGGCCACCACCCCGTCTGGGAGGTGTACCCAACAGCTCA TTGAGAGCCGGCGATGATGACAGTGGCGGCTTTGTGGAGTGGAGGTGGGGGGAAGGTGGG	
5	GAAAAGATTGAGAAATCGGATGGTTGCCGTGTCTGTGTAGAAAGAA	
	AAAAAAACTTCAGTTTTCTAAAAATTATATTTAAAATTGTAATCAAAATGTACCTAGTT TATAAATGTTTATTTTGTACTTAATACCTGTAAAGTCTTAGTTTTCAGACATTAAGTGAC TGTATCATGTTCGGTTTAATAAAGAATTTATGCAGCACCA	.•
10	>M_1.0.0_19735 BB034567 Mus musculus cDNA, 3' end cr: gi-15403646/// /clone=5/gb=BB034567 /gi=15403646 /ug=Mm.37986 /len=699 [Mouse_jongleur_201102.12991.	830499F16 /clone_end=3' C1] [SEQ ID NO: 287]
10	TTTTCATTTTGGTAAGGTTTAGTTGAGCCTAATTATTTTTTTAAGTAGAATATGCCAACG	
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	AAATATTGGGTATCATTAAAATGAAATTTTATAAAGCAATGGTTAGTTTTATGAATTACT	•
15	GTTTTTGTCCTGTCTCTACTTTTTTTGGTGTCTACTTTTTTCAAGTAGCCTTTAGCTCTT ATTATATTTTTGAGTTAGCATATTAGGGAATGGATTTCATGGTGATATTTTCATATGCAT	4
	ATATCATCATACTTGGTTCTTATTTACTCCCCACAACCTTGGCTACCATCCCAATTCCTGT	
	TGGTGCCTTCCTAAATTCTCTCTTTTGCACTCTTGATACAAATGTTTACTTAC	•
20	CTACTTTTATGTTTTGCATATATATTTGTGTATATAAATATTTTGATTGA	-
	TTTGTCTGGCTTATTTCGCTTAACACACTGATCTTCAGTTCCAAAAAACATTATAAATTA	:
	ATTCTTCTTTACACATCAATAAAATTCCAGTTTATACAT >H_1.0.0_24134 Homo sapiens matrix metalloproteinase 12 (macrophage elastase)	(MMP12), mRNA cr: gi-
	4505206/// [Human jongleur 201102.11395.C1] [SEQ ID NO: 288]	
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Ju	TAACCCACATCCTACCAACGCTAGACAATCTAGGATGTAGGGAAAGTTTGTCTCTGGAAT	
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35	TATCACATTTCTCTAGGGAGCTGGATTCCGTTTAGGAGCACTCATTTACTCCAGGAAAAG	
	GATTTTATTTAATCTTTCAACATTTACTTTAAAAACTTTTTT	
	TTCTCTTTTAGTTGGTATATTCTTTTACAAGGGCTTATTTTGTAGATAGGTGGACGT	
40	AGAGGCTTATTTATCATTTTGAAGGTACATACTCTGAATTGCTTGAGTGATGGACTAGAT	
40	GCTAATTGATCCATTGTCGTCTGAATAAAGTCATGCTTTTGTTTG	
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50	GCAATCCGGAAAGCTTTCCAAGTATGGAGTAATGTTACCCCCTTGAAATTCAGCAAGATT AACACAGGCATGGCTGACATTTTGGTGGTTTTTGCCCGTGGAGCTCATGGAGACTTCCAT	
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60	GAAGCTGCTTATGAAATTGAAGCCAGAAATCAAGTTTTTCTTTTTAAAGATGACAAATAC	
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£ <b>6</b>	GGTTATCCCAAACTGATTACCAAGAACTTCCAAGGAATCGGGCCTAAAATTGATGCAGTC TTCTATTCTA	
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70	ATTCTTGCTTGACTCTACTATTAAGTTTGAAAATAGTTACCTTCAAAGCAAGATAATTCT	
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	>gil23623688[gb]BU700918.1]BU700918 UI-M-DJ1-bty-f-10-0-UI.sl NIH_BMAP_DJ1 Mus musculus CDNA Cione	
	UI-M-DJ1-btv-f-10-0-UI 3', mRNA sequence [SEQ ID NO. 289]	
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	GAGGAGGGTCAGGAAAGGCTGATGGGAAGGTAAGTGTTGGCCTTCTGGGTGGG	
	GTGCATGGGTGGTTCTACGGGAAATAAACACAGTGACTACCAGGGTTGGATCCAACCTTT	
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10	ACAATTCCTGGGTATACCACAGGAGGCTCAACTATGGCAAAGCTTTAAGACCAAAGATTG	
	TTCCTCATTACGGCTTTGTATGTCCAACTTGAGGACAACATTCACAAGTAAGT	
	CTCTGAATGCCCATCTCTGTGCCCACGATTC >H_1.0.0_4965 Homo sapiens guanylate cyclase activator 2B (uroguanylin) (GUCA2B), mRNA cr: gi-	
	6005773/// [Human_jongleur_201102.1395.C1] [SEQ ID NO: 290]	
15	GACAGCGCAGGGGGAACCCAGGGATGGGCTGCAGGGCTGCGTCAGGGCTCCTGC	
13	CAGGAGTGGCCGTGGTCCTGCTGCAGAGCACACAGTCAGT	
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	GGGCACCCAGCCCCCGCCTGCAGGCCCAGAGCCTCCTGCCCGCCGTGTGCCACCACCCTG	
	CTCTGCCTCAGGACCTTCAGCCTGTCTGCGCCTCGCAGGAGGCTTCCAGCATCTTCAAGA	
20	CCCTGAGGACCATCGCTAACGACGACTGTGAGCTGTGTGAACGTTGCGTGTACCGGCT	
	GCCTCTGAGATAGCCCTGGGTACCCTGAGCCCACCAGGGACACCTCGCCCTTCAGCCCAC	
	CACCCTGGCAGGCTTCCATCCCCGTCCATGCTCAAGATGGGTCCCTGGCCACCATGGTCA	
	TCACCACCCTTCCAGGGCCTGAGCAGCTGGATCTGGTACAAAGCAATCGGACATAGAGTT	
0.5	GGAGGGGGAGGCCCCTGAGGCAGCCCAGCTCCTGAATAAAGATTCTACAACACACG >M_1.0.0_7865 Mus musculus uterine-specific proline-rich acidic protein (Upa), mRNA cr: gi-6678510	111
25	>M 1.0.0 7865 Mus musculus uterine-specific profile-rich acture protein (ope,, maan er s	
	[Mouse_jongleur_201102.4046.C1] [SEQ ID NO: 291] CCCATAGGACCCTGAGATCTACAGCTTCGCCATTCGCCTAGAGCACTGAAAAGGAGCCCC	
	AGTCATGGAGGGTTTCTCCTGGCCACCTGTTTGGTGGCTGCACTGCTGTGGGAGGCAGG	
	CGCACGTCCAGCACCAGGTCCCTGTCAAGACCCAAAGGCAAACATGTGTTCCCTGAACA	
30	GGAAACAGAGAAGGTCTGGGATACTAGAGCCCTGGAGCCTCTTGAAAAGGACAACCAGCT	
50	GGGGCCACTGCTTCCTGAACCCAAACAGAAGCCTGCAGCTGCCGAGGAAAAGCGTCCAGA	
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	mccmca comena (comenavarea concreaemente comence com a comena comena comena comena comena comena comena comena	,,,
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	CHOIRT GITTE GOOD CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT	

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     >H_1.0.0_24972 Homo sapiens kinesin-associated protein 3 (KIFAP3), mRNA cr: gi-18105053///
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     >H_1.0.0_19867 Homo sapiens mitochondrial ribosomal protein S6 (MRPS6), nuclear gene encoding
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70
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     >H_1.0.0_10681 Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent),
     methenyltetrahydrofolate cyclohydrolase (MTHFD2), nuclear gene encoding mitochondrial protein, mRNA
     cr: gi-13699869/// [Human_jongleur_201102.3990.C6] [SEQ ID NO: 310] ATATAACCGCGTGGCCCGCGCGCGCTTCCCTCCCGGCGCAGTCACCGGCGGGGTCTAT
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    15
    >H_1.0.0_55112 Homo sapiens, Similar to Forkhead-like transcription factor BF-1, clone MGC:33583
    IMAGE:4823883, mRNA, complete cds si: gi-23241914/// [Human_jongleur_201102.cl.11482.singlet] [SEQ
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     {\tt TAGGCTGTTTCTCCACCAACTGGAGCACTGATCAATCCTTCTTATGTTTGCTTTAATGT}
     GTATTGAAGAAAAGCACTTTTTAAAAAGTACTCTTTAAGAGTGAAATAATTAAAAACCAC
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 ${\tt AGGAGTTGGAGTTGACATTAACAAGGCTCTTCTTGCCAAGAGAAAGAGACTAGAAATGTA}$ 

TACCAAGGCTTCTCTCAAAACTAGTAACCAGAAAATTGAACATGTTTGGAAAACACAACA AGATCAAAGGCAGAAGCTTAACCAAGAATATTCTCAGCAGTTTCTGACTTTGTTTCAGCA  ${\tt GTGGGATTTAGATATGCAGAAAGCTGAGGAACAAGAAGAAAAAATACTTAATATGTTTCG}$ ACAGCAACAAAAGATTCTTCAACAATCTAGAATTGTTCAGAGCCAGAGATTGAAAACAAT TAAACAGTTATATGAGCAGTTCATAAAGAGTATGGAAGAGTTGGAGAAGAATCATGATAA  ${\tt TATGATGGAAACTCAGCAGCAAGAGATAGCAAGTGTTCGGAAGTCTCTTCAATCCATGTT}$  ${\tt ATTCTGATGACTCTTTGAAGAAAGAACTTGAACCTAAGTAATATGATACAATTATAACGT}$ TAGCTAAGAAGCATATTGTAAGTCTTTAGAATAGTTTAATTGTAACATCTTTAATCATAA 10 ACCTGTTTCATTGTAAGACCTCCCTTTCTGTTAAGTCAAATCTAAATAGTTATGAGTTAG TTAGCAACTATTCCTAAAGAATATGTATTAAGCTTTCAGCTCTTTAGTAATGATAGTGAA TTTTTCTCTCTAACACTGTCAATTAAATAAAGACGATTTAATTT 15 GTATTGAAGCCACAGGTTGCTGAGGCAAAGCACTTATTGATTAGATTCCCATCAATATTC TCCTTGCTCCTCCTGCAATGCATAACTAGGCCTAGGCAGAGCTGCGAATAAACAGGC 20 AGGAGCTAGTCAGGTGCATGTGCCACACTCACACAAGACCTGGAATTGACAGGACTCCCA ACTAGTACAATGACAGAAGATAAGGTCACTGGGACCCTGGTTTTCACTGTCATCACTGCT  $\tt GTGCTGGGTTCCTTCCAGTTTGGATATGACATTGGTGTGATCAATGCACCTCAACAGGTA$ ATAATATCTCACTATAGACATGTTTTGGGTGTTCCACTGGATGACCGAAAAGCTATCAAC AACTATGTTATCAACAGTACAGATGAACTGCCCACAATCTCATACTCAATGAACCCAAAA 25 CCAACCCCTTGGGCTGAGGAAGAGACTGTGGCAGCTGCTCAACTAATCACCATGCTCTGG  $\tt CTTGGGGACACTTGGAAGAATCAAAGCCATGTTAGTAGCAAACATTCTGTCATTAGTT$ GGAGCTCTCTTGATGGGGTTTTCAAAATTGGGACCATCTCATATACTTATAATTGCTGGA AGAAGCATATCAGGACTATATTGTGGGCTAATTTCAGGCCTGGTTCCTATGTATATCGGT 30  ${\tt GAAATTGCTCCAACCGCTCTCAGGGGAGCACTTGGCACTTTTCATCAGCTGGCCATCGTC}$ ACGGGCATTCTTATTAGTCAGATTATTGGTCTTGAATTTATCTTGGGCAATTATGATCTG TGGCACATCCTGCTTGGCCTGTCTGGTGTGCGAGCCATCCTTCAGTCTCTGCTACTCTTT TTCTGTCCAGAAAGCCCCAGATACCTTTACATCAAGTTAGATGAGGAAGTCAAAGCAAAA CAAAGCTTGAAAAGÃČTCAGAGGATATGATGATGTCACCAAAGATATTAATGAAATGAGA AAAGAAAGAGAAGAAGCATCGAGTGAGCAGAAAGTCTCTATAATTCAGCTCTTCACCAAT 35 TCCAGCTACCGACAGCCTATTCTAGTGGCACTGATGCTGCATGTGGCTCAGCAATTTTCC GGAATCAATGGCATTTTTACTACTCAACCAGCATTTTTCAGACGGCTGGTATCAGCAAA  $\verb|CCTGTTTATGCAACCATTGGAGTTGGCGCTGTAAACATGGTTTTCACTGCTGTCTCTGTA|\\$  $\verb|TTCCTTGTGGAGAAGGCAGGCGACGTTCTCTTTTCTAATTGGAATGAGTGGGATGTTT|$ 40 GTTTGTGCCATCTTCATGTCAGTGGGACTTGTGCTGCTGAATAAGTTCTCTTGGATGAGT TATGTGAGCATGATAGCCATCTTCCTCTTTTGTCAGCTTCTTTGAAATTGGGCCAGGCCCG ATCCCCTGGTTCATGGTGGCTGAGTTTTTCAGTCAAGGACCACGTCCTGCTGCTTTAGCA ATAGCTGCATTCAGCAATTGGACCTGCAATTTCATTGTAGCTCTGTGTTTCCAGTACATT GCGGACTTCTGTGGACCTTATGTGTTTTTCCTCTTTTGCTGGAGTGCTCCTGGCCTTTACC 45 GAATTCCAAAAGAAGAGTGGCTCAGCCCACAGGCCAAAAGCTGCTGTAGAAATGAAATTC CTAGGAGCTACAGAGACTGTGTAAAAAAAAACCCTGCTTTTTGACATGAACAGAAACAA TAAGGGAACCGTCTGTTTTTAAATGATGATTCCTTGAGCATTTTATATCCACATCTTTAA GTATTGTTTTATTTTATGTGCTCTCATCAGAAATGTCATCAAATATTACCAAAAAAGTA TTTTTTTAAGTTAGAGAATATATTTTTGATGGTAAGACTGTAATTAAGTAAACCAAAAAG GCTAGTTTATTTTGTTACACTAAAGGGCAGGTGGTTCTAATATTTTTAGCTCTGTTCTTT ATAACAAGGTTCTTCTAAAATTGAAGAGATTTCAACATATCATTTTTTTAACACATAACT AGAAACCTGAGGATGCAACAAATATTTATATATTTGAATATCATTAAATTGGAATTTTCT TACCCATATATCTTATGTTAAAGGAGATATGGCTAGTGGCAATAAGTTCCATGTTAAAAT AGACAACTCTTCCATTTATTGCACTCAGCTTTTTTCTTGAGTACTAGAATTTGTATTTTG 55 CTTAAAATTTTACTTTTGTTCTGTATTTTCATGTGGAATGGATTATAGAGTATACTAAAA AATGTCTATAGAGAAAAACTTTCATTTTTGGTAGGCTTATCAAAATCTTTCAGCACTCAG AAAAGAAAACCATTTTAGTTCCTTTATTTAATGGCCAAATGGTTTTTGCAAGATTTAACA CTAAAAAGGTTTCACCTGATCATATAGCGTGGGTTATCAGTTAACATTAACATCTATTAT  ${\tt AAAACCATGTTGATTCCCTTCTGGTACAATCCTTTGAGTTATAGTTTGCTTTTTA}$ ATTGAGGACAGCCTGGTTTTCACATACACTCAAACAATCATGAGTCAGACATTTGGTATA  ${\tt TTACCTCAAATTCCTAATAAGTTTGATCAAATCTAATGTAAGAAAATTTGAAGTAAAGGA}$ TTGATCACTTTGTTAAAAATATTTTCTGAATTATTATGTCTCAAAATAAGTTGAAAAGGT  ${\tt AGGGTTTGAGGATTCCTGAGTGTGGGCTTCTGAAACTTCATAAATGTTCAGCTTCAGACT}$  ${\tt 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ACATAAAATAATCGTCTCCTTTGACATTTCCTTCTTTGTCTTAGCTGTATACAGATTCTA ACATAGGCAAATTGGAAATACACAGATGATTAAACAGACTTTAGCTTACAGTCAATTTTA CAATTATGGAAATATAGTTCTGATGGGTCCCAAAAGCTTAGCAGGGTGCTAACGTATCTC 70 TAGGCTGTTTTCTCCACCAACTGGAGCACTGATCAATCCTTCTTATGTTTGCTTTAATGT GTATTGAAGAAAAGCACTTTTTAAAAAGTACTCTTTAAGAGTGAAATAATTAAAAACCAC

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TGAACATTTGCTTTGTTTTCTAAAGTTGTTCACATATATGTAATTTAGCAGTCCAAAGAA
     CAAGAAATTGTTTCTTTTC
     >gi|4564508|ref|NM|000198.1| Homo sapiens hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid
     delta-isomerase 2 (HSD3B2), mRNA [SEQ ID NO: 333]
     {\tt GAGGCAGTAAGGACTTGGACTCCTCTGTCCAGCTTTTAACAATCTAAGTTACGGTTACCC}
     TCTTCTGGGTCACGCTAGAATCAGATCTGCTCTCCAGCATCTTCTGTTTCCTGGCAAGTG
     \verb|TTTCCTGCTACTTTGGATTGGCCACGATGGGCTGGAGCTGCCTTGTGACAGGAGCAGGAG|\\
     GGCTTCTGGGTCAGAGGATCGTCCGCCTGTTGGTGGAAGAGAAGGAACTGAAGGAGATCA
     GGGCCTTGGACAAGGCCTTCAGACCAGAATTGAGAGGGAATTTTCTAAGCTCCAGAACA
     GGACCAAGCTGACTGTACTTGAAGGAGACATTCTGGATGAGCCATTCCTGAAAAGAGCCT
     {\tt GCCAGGACGTCTCGGTCGTCATCCACACCGCCTGTATCATTGATGTCTTTGGTGTCACTC}
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     AGGCTCAGCGAGATCTGGCGTATAAGCCACTCTACAGCTGGGAGGAAGCCAAGCAGAAAA
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     TGACTAATAGAGCTCCATTTCCCCTCTTAAATGAGAAAGCATTTCTTTTTCTCTTTAATCT
     CCTATTCCTTCACACAGTTCAACATAAAGAGCAATAAATGTTTTAATGCTTAA
     >H_1.0.0_2892 Homo sapiens hydroxysteroid (17-beta) dehydrogenase 2 (HSD17B2), mRNA cr: gi-4504502/// [Human_jongleur_201102.518.C1] [SEQ ID NO: 334]
     \tt CTGGGAATATGATTATGCTTAATCTAT\overline{G}CTCAGTCGAAAGGGGCTGGGGCTGCTTTCTCC
     {\tt TAGACTCACTGGCCCTGAGCACTTGAAGGTGCAGCAAGTCACTGAGAATGAGCACTTTCT}
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     GCAAATACAAGAAGAGCTCAGGGCAGCTGTGGAGCTGGATGGTCTGCCTGGCAGGCCTCT
40
     GTGCAGTCTGCCTGATCCTGTCCCCTTTTTGGGGCTTGATCCTCTTCTCGGTGTCAT
     {\tt GCTTCCTCATGTATACTTACTTATCTGGCCAAGAATTGTTACCTGTGGATCAGAAGGCAG}
     {\tt TCCTGGTGACAGGTGGTGATTGCGGGCTTGGCCATGCTTTGTGCAAGTATCTGGATGAGC}
     TGGGCTTCACGGTATTTGCCGGAGTTTTGAATGAAAATGGCCCAGGAGCTGAGGAATTGC
      GAAGAACCTGCTCTCCGCGCCTCTCGGTGCTCCAAATGGACATCACGAAGCCAGTGCAGA
     TAAAAGATGCTTACAGCAAGGTTGCAGCAATGCTGCAGGACAGAGGACTGTGGGCTGTGA
      ACAAACAATGCATGGCCGTGAACTTCTTTGGAACTGTGGAGGTCACAAAGACGTTTTTGC
     CTCTTCTTAGAAAATCCAAAGGGAGGCTGGTGAATGTCAGCAGCATGGGAGGAGGGGCCC
     {\tt CAATGGAAAGGCTGGCATCTTATGGCTCATCAAAGGCGGCTGTGACCATGTTCTCATCAG}
50
     TCCTAACAAATATCGCAGGCACCAGTGACAAGTGGGAAAAGCTGGAGAAGGACATTCTGG
     {\tt ACCACCTCCCCGCTGAGGTACAGGAAGACTACGGCCAGGACTACATCTTAGCACAGCGGA}
     ATTTCCTCCTATTGATCAACTCGTTAGCCAGCAAGGACTTCTCTCCGGTGCTGCGGGACA
     {\tt TCCAGCATGCTATCTTGGCGAAGAGCCCTTTTGCCTATTACACGCCAGGGAAAGGCGCTT}
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     {\tt GGGAAACTGGGAAACTGGGTTTCTCATTAAAGTTGTTTCCCACTCTGA}
     >H_1.0.0_24692 Homo sapiens, Similar to TATA box binding protein (TBP)-associated factor, RNA
60
     polymerase II, S, 150kD, clone IMAGE:3636799, mRNA cr: gi-15559581///
     [Human_jongleur_201102.11703.C2] [SEQ ID NO: 335]
GGCACGAGGGGCGGTGGATGAACGCGGCCCTCTGTAATGGCGGAGCGTGGCGGGGACGG
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65
     {\tt ACCTCCTCCACCTTTTGGTATGATGCGAGGCCCTCCTCCACCACCACGGCCGCCCTTTGG}
     {\tt ACGTCCTCCTTTGATCCTAATATGCCGCCAATGCCTCCTCCAGGAGGGATACCTCCACC}
     TATGGGCCCTCCACACCTCCAGAGACCACCTTTCATGCCTCCCATGAGTTCCATGCC
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GGCTCAGGCCCAGGCCCAGGCCCAGGCCCAAGCCCAAGCCCAAGCCCA
     {\tt AGCACCTGCAGTATCCACCTTCAACATCATCATCCACCCCTTCCTCTACCACTTCTACCAC}
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    TCTTTCCCATAAGGCAGAGAAAGGAAAATACAAGCATCAGAGGTGAAGGAGGCTGGGACA
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AATAAATATTTTTTAAAAAGAGTCCTTCCCTCAAAGCCTTGCCCCCTCCTCACTTTAGGC TGCAAGGACCCGGCCCAGGACAACTCCTGAAAGAGCTGATGCAGACACCAAACTTCCGTA  ${\tt GGCTGCAGGTACTCCAGGCTCTCACTATTGAGCAGTGGTTCCCCTTTCCTACCATGTCCC}$ ATGCATATAGGAGGAGCTGCAGAAGCAAGGCCAGGGCCATTCAGGCGGCTGATTATTCAT CATCAGACCGTGGACCCCCTTGCTCCTGTCCCATTTTAGCCCCGTGTGGGACTCCCCACC CTCTGGCTCCAGGAGGTGGTCAGGGGGACAAGGAGATGCCCAGGCTAATGGGAGACAAAA CATCCTTGACACCCAGACAGACTAATGGCCAGAACTATGGATCCTGGACAGCTGTTGACT TCAGAAAATGTCCTCGAGGAGGAGTATGGGGCAGGGCTTAAGAAAGGGGGTGCAGCAAG  $\tt GGGGGAAACCAAGAGGCGGAAGTAGGCTTCTAAAAGGCCACACACTATACCTCTCTTCTG$ CAGTGGGTGTCACGGCTGATGAAATGAGTATGAGGGGGCCTCCACATGGGGCCTATAGGAG GGGGTCTTTTTCTCACCTATGACCTCCACTCCTTCAAGAATGTAGTGGCCGTGGGGGGCTG 15  ${\tt GCTTCTGTGATGGCCTGGGCTTTGGCGACAACACCAAGGCGGCAGTGATCCGGCTGGGTC}$ TCATGGAGATGATAGCCTTCGCCAAGCTCTTCTGCAGTGGCCCTGTGTCCTCTGCCACCT TCTTGGAGAGCTGTGGTGTTGCTGACCTGATCACTACCTGCTATGGAGGGCGGAACCGGA AAGTGGCTGAGGCCTTTGCGCGTACAGGAAAGGTGGGCCCCGGGAGAAGGGAGAACAGAG  $\tt GGGCGGCTCTGTAGGCATCCAGGTAGAGGTGCTTGGCGGGAGGCATCTCTGGAGCACAAA$  ${\tt CATTAAGACTGTTGTGCACATCCCCATCCCTTTTTCCTCCCAAGACCCCACTCCCATCT}$ GAGCTCCAGTCTCCACCCCCTACTGACAACCCAGCTGCTCCCTTTTCCAAGCTTTACC  $\tt CTGACCAGTCATGAGTGGATATTCTGAACCTGTTTCATACTGTCTTCTTAGGAGTCTT$ TCTCAGACCAGCACAGCTCTGCTCTGATCAGCCCAATCACCCCCGCTGTCAACCCCACAC GCCTTTGGCACAATGAAGTGGGTAACCTTTATTTCCCTTCTTTTTCTCTTTAGCTCGGCT 25 TATTCCAGGGGTGTGTTTCGTCGAGATGCACACAAGAGTGAGGTTGCTCATCGGTTTAAA GATTTGGGAGAAAAATTTCAAAGCCTTGGTGTTGATTGCCTTTGCTCAGTATCTTCAG CAGTGTCCATTTGAAGATCATGTAAAATTAGTGAATGAAGTAACTGAATTTGCAAAAACA TGTGTTGCTGATGAGTCAGCTGAAAATTGTGACAAATCACTTCATACCCTTTTTGGAGAC AAATTATGCACAGTTGCAACTCTTCGTGAAACCTATGGTGAAATGGCTGACTGCTGCA 30 AAACAAGAACCTGAGAGAAATGAATGCTTCTTGCAACACAAAGATGACAACCCAAACCTC CCCCGATTGGTGAGACCAGAGGTTGATGTGATGTGCACTGCTTTTCATGACAATGAAGAG ACATTTTTGAAAAAATACTTATATGAAATTGCCAGAAGACATCCTTACTTTTATGCCCCG GAACTCCTTTTCTTTGCTAAAAGGTATAAAGCTGCTTTTACAGAATGTTGCCAAGCTGCT GATAAAGCTGCCTGCCTGTTGCCAAAGCTCGATGAACTTCGGGATGAAGGGAAGGCTTCG TCTGCCAAACAGAGACTCAAGTGTGCCAGTCTCCAAAAATTTGGAGAAAGAGCTTTCAAA GCATGGGCAGTAGCTCGCCTGAGCCAGAGATTTCCCAAAGCTGAGTTTGCAGAAGTTTCC AAGTTAGTGACAGATCTTACCAAAGTCCACACGGAATGCTGCCATGGAGATCTGCTTGAA TGTGCTGATGACAGGGCGGACCTTGCCAAGTATATCTGTGAAAATCAAGATTCGATCTCC AGTAAACTGAAGGAATGCTGTGAAAAACCTCTGTTGGAAAAATCCCACTGCATTGCCGAA 40  $\tt GTGGAAAATGATGAGATGCCTGCTGACTTGCCTTCATTAGCTGCTGATTTTGTTGAAAGT$  ${\tt AAGGATGTTTGCAAAAACTATGCTGAGGCAAAGGATGTCTTCCTGGGCATGTTTTTGTAT}$ GAATATGCAAGAAGGCATCCTGATTACTCTGTCGTGCTGCTGCTGAGACTTGCCAAGACA TATGAAACCACTCTAGAGAAGTGCTGTGCCGCTGCAGATCCTCATGAATGCTATGCCAAA 45 GAGCTTTTTGAGCAGCTTGGAGAGTACAAATTCCAGAATGCGCTATTAGTTCGTTACACC AAGAAAGTACCCCAAGTGTCAACTCCAACTCTTGTAGAGGTCTCAAGAAACCTAGGAAAA GTGGGCAGCAAATGTTGTAAACATCCTGAAGCAAAAAGAATGCCCTGTGCAGAAGACTAT CTATCCGTGGTCCTGAACCAGTTATGTGTGTTGCATGAGAAAACGCCAGTAAGTGACAGA  ${\tt GTCACCAAATGCTGCACAGAATCCTTGGTGAACAGGCGACCATGCTTTTCAGCTCTGGAA}$ 50  ${\tt GTCGATGAAACATACGTTCCCAAAGAGTTTAATGCTGAAACATTCACCTTCCATGCAGAT}$ GTGAAACACAAGCCCAAGGCAACAAAAGAGCAACTGAAAGCTGTTATGGATGATTTCGCA GCTTTTGTAGAGAAGTGCTGCAAGGCTGACGATAAGGAGACCTGCTTTGCCGAGGAGGGT AAAAAACTTGTTGCTGCAAGTCAAGCTGCCTTAGGCTTATAACATCACATTTAAAAGCAT 55 CTCAGCCTACCATGAGAATAAGAGAAAGAAAATGAAGATCAAAAGCTTATTCATCTGTTT TTCTTTTCGTTGGTGTAAAGCCAACACCCTGTCTAAAAAACATAAATTTCTTTAATCAT TTTGCCTCTTTTCTCTGTGCTTCAATTAATAAAAAATGGAAAGAATCTAATAGAGTGGTA  ${\tt CAGCACTGTTATTTTCAAAGATGTGTTGCTATCCTGAAAATTCTGTAGGTTCTGTGGAA}$  ${\tt GTTCCAGTGTTCTCTTATTCCACTTCGGTAGAGGATTTCTAGTTTCTGTGGGCTAATT}$ 60 AAATAAATCACTAATACTCTTCTAAGTTATGGATTATAAACATTCAAAATAATATTTTGA CATTATGATAATTCTGAATAAAAGAACAAAAACCATGGTATAGGTAAGGAATATAAAACA >H_1.0.0_3308 Homo sapiens regenerating islet-derived 1 alpha (pancreatic stone protein, pancreatic thread protein) (REG1A), mRNA cr: gi-4506470/// [Human_jongleur_201102.658.C1] [SEQ ID NO: 337] 65 GCTGTAATGAAGCCTCAGTGGGATCCAAAGTTGTTTTTCAGTTACTGAGTCTGTATAATC  $\verb|CCCACTCTCAAGAGAAACATTTGAAGGTGTGTGTCTCAGAGGACCTTCCTGGTCTCAG$ AAATTCTGAGAGGAGGTTTTAAGGAAGGTAATAGGTGCTTTGCTCTCCATCTCTCAGAAC  $\verb|CCCCTTCCCTGTGTTCTCCTACAGAGATTGTTGATTTGCCTCTTAAGCAAGAGATTCATT|\\$ GTCTCAGAGCCAAGGCCAAGAGGCCCAGACAGAGTTGCCCCAGGCCCGGATCAGCTGCCC 70 AGAAGGCACCAATGCCTATCGCTCCTACTGCTACTTTAATGAAGACCGTGAGACCTG

GGTTGATGCAGATCTCTATTGCCAGAACATGAATTCGGGCAACCTGGTGTCTGTGCTCAC  ${\tt CCAGGCCGAGGGTGCCTTTGTGGCCTCACTGATTAAGGAGAGTGGCACTGATGACTTCAA}$  ${\tt TGTCTGGATTGGCCTCCATGACCCCCAAAAAGAACCGCCGCTGGCACTGGAGCAGTGGGTC}$  ${\tt CCTGGTCTCCTACAAGTCCTGGGGCATTGGAGCCCCAAGCAGTGTTAATCCTGGCTACTG}$  ${\tt TGTGAGCCTGAGCACAGGATTCCAGAAATGGAAGGATGTGCCTTGTGAAGACAA}$ GTTCTCCTTTGTCTGCAAGTTCAAAAACTAGAGGCAGCTGGAAAATACATGTCTAGAACT GATCCAGCAATTACAACGGAGTCAAAAATTAAACCGGACCATCTCTCCAACTCAACTCAA CAGTCTTTGGAACCCTAAATAATAAAAATAAACATGTTTTCCACT

10 >gi|5031940|ref|NM|005596.1| Homo sapiens nuclear factor I/B (NFIB), mRNA [SEQ ID NO: 338] CCTGGAACTCTAGCACGCCGAGTGAACTTGAATCTTTGGCTATTTAAGGAGGACTGGGTT  ${\tt TCAGATGACTGTAAAATGAATAGATGAAATTCTTGCTTCTCGAAGATTTTCTTGGGCATC}$ 

- 15 ATGAATTTCACCCATTCATGGAAGCACTTCTTCCACATGTCCGTGCAATTGCCTATACTT GGTTCAACCTGCAGGCTCGAAAACGCAAGTACTTTAAAAAGCATGAGAAGCGAATGTCAA AGGATGAAGAAGAGCAGTCAAAGATGAGCTTCTCAGTGAAAAGCCTGAAATCAAACAGA  ${\tt AGTGGGCATCCAGGCTCCTTGCCAAACTGCGCAAAGATATTCGCCAGGAGTATCGAGAGG}$ ACTTTGTGCTCACCGTGACTGGCAAGAAGCACCCGTGCTGTCTTATCCAATCCCGACC 20 A GAAGGGTAAGATTAGGAGAATCGACTGCCTGCGACAGGCAGACAAAGTCTGGCGTCTGG
- ${\tt ATCTAGTCATGGTGATCCTGTTCAAAGGCATCCCCTTGGAAAGTACCGATGGAGAGCGGC}$ TCATGAAATCCCCACATTGCACAAACCCAGCACTTTGTGTCCAGCCACATCATATCACAG  ${\tt TATCAGTTAAGGAGCTTGATTTGTTTTTGGCATACTACGTGCAGGAGCAAGATTCTGGAC}$ AATCAGGAAGTCCAAGCCACAATGATCCTGCCAAGAATCCTCCAGGTTACCTTGAGGATA 25  $\tt GTTTTGTAAAATCTGGAGTCTTCAATGTATCAGAACTTGTAAGAGTATCCAGAACGCCCA$ TAACCCAGGGAACTGGAGTCAACTTCCCAATTGGAGAAATCCCAAGCCAACCATACTATC

ATGACATGAACTCGGGGGTCAATCTTCAGAGGTCTCTGTCTTCTCCACCAAGCAGCAAAA

- GACCCAAAACTATATCCATAGAYGAAAATATGGAACCAAGTCCTACAGGAGACTTTTACC  ${\tt CCTCTCCAAGTTCACCAGCTGCTGGAAGTCGAACATGGCACGAAAGAGATCAAGATATGT}$  $\tt CTTCTCCGACTACTATGAAGAAGCCTGAAAAGCCATTGTTCAGCTCTGCATCTCCACAGG$ ATTCTTCCCCAAGACTGAGCACTTTCCCCCAGCACCACCATCCCGGAATACCTGGAGTTG  ${\tt CACACAGTGTCATCTCAACTCGAACTCCACCTCCACCTTCACCGTTGCCATTTCCAACAC}$  ${\tt AAGCTATCCTTCCAGCCCCATCGAGCTACTTTTCTCATCCAACAATCAGATATCCTC}$  $\tt CCCACCTGAATCCTC\overline{A}GGATACTCTGAAGAACTATGTACCTTCTTATGACCCATCCAGTC$
- ${\tt CACAAACCAGCCAGTCCTGGTACCTGGGCTAGCTTGGTTCCTTTCCAAGTGTCAAATAGG}$ ACACCCATCTTACCGGCCAATGTCCAAAATTACGGTTTGAACATAATTGGAGAACCTTTC  ${\tt CTTCAAGCAGAAACAAGCAACTGAGGGGAAAAAGAAACACAACAATAGTTTAAGAAATTTT}$ TTTTTTAAATAAAAAAAAGGAAAAGAGGAAGACTGGACAAAACAACACAAAGGCAGAAAG
- GAAAGAAACTGAAGAAAGAAGATAATAGACCAGCAATTGCAGCACTTACAATCACTAATT 40  $\tt CGCAGCCCCTGCAACGTAGCCTTTGTTACATGAAGTCCGCTGGGAAATAGATGTTCTGTC$ TCTATGACAATATATTTTAACTGACTTTCTAGATGCCTTAATATTTTGCATGATAAGCTAG  ${\tt TTTTATTGGTTTAGTATTCTTGTTGTTTACGCATGGAATCACTATTCCTGGTTATCTCAC}$
- 45  ${\tt TTATAAGCACTCTGATTTCTAAAAGTTAAAAAAAAATATATGAAATCTCTGTAGCCTTTAG$ TTATCAGTACAGATTTATTAAATTTCGGCCCTTAACCCAGCCTTTTCCAGTGTGTAACCC  ${\tt AAACAGTTTGAACACAAAGGCTCTATGGAAGAAATGCCTCTATGTAGGTGAAGTGTTCTC}$ TCTGCATGCAACAGTAAAAATTAATATATATTTTCCCCACAAAAGAAACACTTAACAGA
- ${\tt GGGCAAGTGCAATTTATTATATTCTTAAAGGGGGAATTCATGGATTATTAAGGT}$ CCTTCAGGCCCTTGGGGACTCTTA